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1.2 mawk 1.3.3-17+b3

1.2.1 Available under license :

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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1.8 shadow 4.5-1.1

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Version 2, June 1991

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1.10 jansson 2.7

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1.11 ipmi-tool 1.8.18

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

```
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(at your option) any later version.
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under certain conditions; type `show c' for details.

The hypothetical commands `show
w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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'Gnomovision' (which makes passes at compilers) written by James Hacker.

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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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1.15 audit 2.8.4-3

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```
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```

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1.16 cdebconf 0.249

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1.17 adduser 3.118

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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1.18 pcre 8.39-12

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Written by: Philip Hazel

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1.19 coreutils 8.30-3

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1.20 diffutils 3.7-3

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ASM: a very small and fast Java bytecode manipulation framework

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1.23 supervisor 3.3.5-1

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1.24 libtool 2.4.6-9

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1.29 e2fsprogs 1.44.5-1+deb10u3

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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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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```
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```

```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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#

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

```

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

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing 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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1.31 terminaltables 3.1.0

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* /opt/ws_local/PERMITS_SQL/1027459591_1591847566.29/terminaltables-3-1-0-tar-gz/terminaltables-3.1.0/terminaltables.egg-info/PKG-INFO

* /opt/ws_local/PERMITS_SQL/1027459591_1591847566.29/terminaltables-3-1-0-tar-gz/terminaltables-3.1.0/PKG-INFO

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1.32 dosfs-tools 3.0.26

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```
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```

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1.33 gpt-fdisk 0.8.8

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```

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

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1.34 cpp 8.3.0-6

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1.35 fdisk 2.33.1

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1.36 base-passwd 3.5.46

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1.38 strace 4.16

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1.39 debianutils 4.8.6.1

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1.42 mime-support 3.62

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1.43 libidn 1.33-2.2

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1.46 libntlm 1.5-1+deb10u1

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

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

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

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

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

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

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

a) Accompany

the work with the complete corresponding

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

b) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

properly with a modified version of the library, if

the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

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The

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1.54 popt 1.16-12

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1.56 mpdecimal 2.4.2-2

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1.57 libevent 2.1.8-stable-4

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1.58 pciutils 3.2.1

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1.59 gpm 1.20.7-5

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1.60 tcp-wrappers 7.6.q-28

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1.61 liblognorm 2.0.5-1

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1.62 sysv-init 2.93-8

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1.63 meld 1.0.2

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Contributors

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1.68 zstd 1.3.8+dfsg-3+deb10u2

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Upstream-Name: Zstd

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Comment: Starting from 1.3.1 zstd's patent claim is removed

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Files: zlibWrapper/examples/*.c

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1.69 gc 7.6.4-0.4

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1.70 python-setuptools 40.8.0-1

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1.74 iputils 20180629-2+deb10u2

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Upstream-Name: liblz4

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

Source: <https://github.com/lz4/lz4>

Files: *

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1.77 scapy 2.4.5

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Version 2, June 1991

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```

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<signature of Ty Coon>, 1 April 1989
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```
{
"testfiles": [
  "test/*.uts",
  "test/scapy/layers/*.uts",
  "test/contrib/automotive/*.uts",
  "test/contrib/automotive/obd/*.uts",
  "test/contrib/automotive/gm/*.uts",
  "test/contrib/automotive/bmw/*.uts",
  "test/contrib/automotive/xcp/*.uts",
  "test/contrib/*.uts"
],
"remove_testfiles": [
  "test/linux.uts",
  "test/windows.uts",
  "test/contrib/automotive/ecu_am.uts",
```



```

"test/contrib/automotive/gm/gmlanutils.uts",
"test/contrib/isotp.uts",
"test/contrib/isotpscan.uts"
],
"onlyfailed": true,
"preexec": {
"test/contrib/*.uts": "load_contrib(\"%name%\")",
"test/cert.uts": "load_layer(\"tls\")",
"test/sslv2.uts": "load_layer(\"tls\")",
"test/tls*.uts": "load_layer(\"tls\")"
},
"kw_ko": [
"linux",
"windows",
"crypto_advanced",
"ipv6",
"vcan_socket"
]
}

```

1.78 libgcrypt 1.8.4-5+deb10u1

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This package was debianized by Ivo Timmermans <ivo@debian.org> on Fri, 3 Aug 2001 10:02:38 +0200.

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LIBGCRYPT Werner Koch 2001-06-07

Assigns past and future changes.

Assignment for future changes terminated on 2012-12-04.

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Designed and implemented Libgrypt.

GNUPG Matthew Skala 1998-08-10

Disclaims changes.

mskala@ansuz.sooke.bc.ca

Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11

Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17

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Wrote

cipher/des.c.

Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18

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Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25

Assigns past and future changes. (g10/compress.c, g10/encr-data.c,

g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)

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ANY g10 Code GmbH 2001-06-07

Assignment for future changes terminated on 2012-12-04.

Code marked with ChangeLog entries of g10 Code employees.

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LIBGCRYPT Simon Josefsson 2002-10-25

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CTS/MAC flags, self test improvements)
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LIBGCRYPT Moritz Schulte 2003-04-17

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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22

nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15

Assigns
past and future changes. (new: src/libcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20

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(mpi/amd64, tests/mpitests.c)

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(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09

Assigns

Past and Future Changes

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(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Mller 2012-02-15

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(Changes to cipher/idea.c and related files)

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(cipher/serpent.c)

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=====

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files from Cryptlib. Copyright Peter Gutmann, Paul Kendall, and Chris
Wedgwood 1996-1999.

The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne,
sergi at calcurco dot org.

The implementation of the Camellia cipher has been taken from the
original NTT provided GPL source.

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```

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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.83 dropbear 2016.74

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=====

loginrec.c

loginrec.h

atomicio.h

atomicio.c

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=====

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*

* curve25519-donna: Curve25519 elliptic curve, public key function

*

* <http://code.google.com/p/curve25519-donna/>

*

* Adam Langley <agl@imperialviolet.org>

*

* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

*

* More information about curve25519 can be found here

* <http://cr.yp.to/ecdh.html>

*

- * djb's sample implementation of curve25519 is written in a special assembly
- * language called qhasm and uses the floating point registers.
- *
- * This is, almost, a clean room reimplementation from the curve25519 paper. It
- * uses many of the tricks described therein. Only the crecip function is taken
- * from the sample implementation.
- */

1.84 tdb 1.44.5

1.84.1 Available under license :

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

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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)/$(BSD_LIB)
@-$(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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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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```
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```

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

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

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

```
Ty Coon, President of Vice
```

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Theodore Ts'o
23-June-2007

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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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1.88 cyrus-sasl 2.1.27+dfsg-1+deb10u2

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1.99 packaging 16.8

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1.100 wsgiref 0.1.2

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Found in path(s):

* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref/validate.py

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Metadata-Version: 1.0

Name: wsgiref

Version: 0.1.2

Summary: WSGI (PEP 333) Reference Library

Home-page: <http://cheeseshop.python.org/pypi/wsgiref>

Author: Phillip J. Eby

Author-email: web-sig@python.org

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Description: This is a standalone release of the ``wsgiref`` library to be included in Python 2.5. For the standalone version's documentation, see:

HTML

http://peak.telecommunity.com/wsgiref_docs/

PDF

<http://peak.telecommunity.com/wsgiref.pdf>

Platform: UNKNOWN

Found in path(s):

* /opt/cola/permits/1403963770_1661913703.6112542/0/wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref.egg-info/PKG-INFO

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1.101 zlib 1.2.11.dfsg-1+deb10u2

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1.102 base-files 10.3+deb10u13

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Version 3, 29 June 2007

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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>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 1, or (at your option)  
any later version.
```

```
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```
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```

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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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.

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The

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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.

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```
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```

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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```
# COPYING.other          *- org *-  
#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.104 rsyslog 8.1901.0-1+deb10u2

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1.106 bzip2 1.0.6-9.2~deb10u2

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Upstream-Name: bzip2

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

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

1.107 sqlite 3.27.2-3+deb10u2

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= Change Description / Commit Message / Patch Email =
=====
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```
== Sample Change Description / Commit Message ==
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary
```

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1

Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- * The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- * git format-patch is one way to create this format

==== Definitions

for sample patch email ====

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-

=====
= Code Contributions =
=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.

3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0 The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
 - * BSD (2-clause): <http://opensource.org/licenses/BSD-2-Clause>
 - * BSD (3-clause): <http://opensource.org/licenses/BSD-3-Clause>
 - * MIT: <http://opensource.org/licenses/MIT>
 - * Python-2.0: <http://opensource.org/licenses/Python-2.0>
 - * Zlib: <http://opensource.org/licenses/Zlib>

Contributions of code put into the public domain can also be accepted.

Contributions using other licenses might be accepted, but further review will be required.

=====
= Change Description / Commit Message / Patch Email =
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

==== Start of sample patch email message ====

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- * The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- * git format-patch is one way to create this format

==== Definitions for sample patch email ====

- * "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- * "Brief-single-line-summary" is a short summary of the change.
- * The entire first line should be less than ~70 characters.
- * "Full-commit-message" a verbose multiple line comment describing the change.

Each line should be less than ~70 characters.

- * "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- * "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

=====
= TianoCore Contribution Agreement 1.0 =
=====

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1.111 libunistring 0.9.10-1

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Format: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=202>

Upstream-Name: libunistring

Upstream-Contact: Bruno Haible <bruno@clisp.org>

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trust/oid.c trust/oid.h

trust/pem.c trust/pem.h common/argv.c common/argv.h common/pkcs11x.h

common/pkcs11i.h

common/test-constants.c common/test-hash.c

p11-kit/pkcs11.h p11-kit/test-managed.c

trust/builder.c trust/builder.h trust/digest.h trust/module.c

trust/module.h trust/module-init.c trust/pem.c

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trust/oid.h trust/parser.h

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trust/test-parser.c trust/test-pem.c trust/test-token.c
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p11-kit/test-log.c trust/anchor.c trust/anchor.h
trust/enumerate.c trust/enumerate.h trust/extract.c
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1.115 grep 3.3-1

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2003, Clint Adams <schizo@debian.org> Mon, 10 Mar 2003 02:10:32 -0500

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

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

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

Any executables

containing that work also fall under Section 6,

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

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

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a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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- a) Accompany the combined library with a copy of the same work

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This package was debianized by Russell Coker <russell@coker.com.au> on Fri, 20 Aug 2004 17:26:18 +1000.

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1.117 libffi 3.2.1-9

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This package was debianized by Matthias Klose <doko@debian.org> on Mon, 10 Mar 2008 05:46:40 +0000.

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1.118 libcap-ng 0.7.9-2

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

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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,

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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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The idea for `-print0` and `xargs -0` came from
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Improvements have been made by James Youngman <jay@gnu.org>.

* GNU `xargs`
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MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU `locate` and its associated utilities were originally
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1.124 systemd 241-7~deb10u10

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1.125 libfastjson 0.99.8-2+deb10u1

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1.128 e2fsprogs 1.42.13

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Index: tdbsa/tdb.c

```
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell      2005
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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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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#

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

```

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

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package, the EXT2 filesystem utilities, are made available under
the GNU Public License version 2, with the exception of the lib/ext2fs

```

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

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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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1.130 netbase 5.6

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1.131 util-linux 2.27.0

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1	32	7679	7648	3.7M		8f8378c0-01
2	7680	16383	8704	4.3M		8f8378c0-02
5	7936	12799	4864	2.4M		
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
```

```

# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
local FILE="$1"

# Read the contents of the file into a variable
local raw_license_text=$(<"$FILE")

# Convert to lowercase
local lowercase_license_text="{raw_license_text,}"

# Remove anything before the beginning of the license
local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

# Replace line breaks (Windows or Linux) with a single space
local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

# Replace multiple spaces with a single space
local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

# Strip away any non-printable, non-whitespace characters
local clean_unprintable_license_text=$(tr
-cd '[:print:][:space:]' <<< "$normalized_license_text")

# Remove punctuation and special characters
local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
echo "Please provide a FILE as an argument."
exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

```

;9GimCN7g

!"#\$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@

WEV[B "1

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1.132 kerberos 1.17-3+deb10u6

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1.133 busybox 1.25.1

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1.134 ncurses 6.1+20181013-2+deb10u5

1.134.1 Available under license :

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

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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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>

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Files: doc/html/NCURSES-Programming-HOWTO.html
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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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

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-- vile:txtmode fc=72

-- \$Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp \$

This is the Debian prepackaged version of the ncurses library and terminfo utilities. ncurses/terminfo was originally written by Pavel Curtis and Zeyd M. Ben-Halim <zmbenhal@netcom.com>, and is currently held by the Free Software Foundation.

This package was put together by Vaidhyanathan G Mayilrangam <vaidhy@debian.org> and Joel Klecker <espy@debian.org>, using sources obtained from ftp://ftp.gnu.org/gnu/ncurses/ncurses-5.0.tar.gz. Current versions of the ncurses sources are found at ftp://invisible-island.net/ncurses/.

It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, David Engel <david@elo.ods.com>. Michael Alan Dorman <mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup <jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.

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1.135 zlib 1.2.8

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1.136 zlib 1.2.7

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1.137 mariadb 10.3.39-0+deb10u2

1.137.1 Available under license :

Rules:

rules:

-

Glob: storage/maria/ma_commit.c storage/maria/trnman.h storage/maria/trnman_public.h storage/maria/unittest/trnman-t.c include/waiting_threads.h unittest/mysys/waiting_threads-t.c mysys/waiting_threads.c storage/maria/trnman.c include/maria.h

Copyright:

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- 2008-2009 Sun Microsystems, Inc

-

Glob: storage/tokudb/ft-index/third_party/xz-4.999.9beta/build-aux/install-sh

License: MIT/X11

-

Glob: storage/connect/*

Copyright: 1993-2014 Olivier Bertrand

-

Glob: client/async_example.c include/my_context.h mysys/my_context.c storage/connect/inihandl.c \ storage/tokudb/ft-index/third_party/xz-4.999.9beta/lib/getopt.c storage/tokudb/ft-index/third_party/xz-4.999.9beta/lib/getopt.in.h \

storage/tokudb/ft-index/third_party/xz-4.999.9beta/lib/getopt1.c storage/connect/inihandl.c \

tests/nonblock-wrappers.h tests/async_queries.c sql-common/mysql_async.c

License: LGPL-2.1+

-

Glob: mysys/my_port.c

License: LGPL-2

-

Glob: debian/additions/innotop/*

License: GPL-2 or Artistic

-

Glob: storage/innobase/include/pars0grm.h storage/innobase/pars/pars0grm.cc \ storage/xtradb/include/pars0grm.h storage/xtradb/pars/pars0grm.cc

License: GPL-2+-with-bison-exception

-

Glob: storage/innobase/fts/fts0pars.cc sql/sql_yacc.cc sql/sql_yacc.h storage/innobase/include/fts0pars.h \ storage/xtradb/fts/fts0pars.cc storage/xtradb/include/fts0pars.h
License: GPL-3+-with-bison-exception

-

Glob: storage/connect/inihandl.c
VerifyLicense: LGPL-2.1+

-

Glob: storage/tokudb/ft-index/third_party/xz-4.999.9beta/m4/acx_pthread.m4
License: GPL-3+

-

Glob: plugin/auth_pam/testing/pam_mariadb_mtr.c
License: public-domain

-

Glob: plugin/locale_info/locale_info.cc plugin/qc_info/qc_info.cc
License: BSD-3-clause

-

Glob: mysys/waiting_threads.c
Copyright:
- 2011, 2013, Monty Program Ab,
- 2008 MySQL AB,
- 2008-2009 Sun Microsystems, Inc

-

Glob:
storage/innobase/ut/ut0crc32.cc storage/xtradb/ut/ut0crc32.cc
License: GPL-2 and BSD-2-clause

-

Glob: storage/oqgraph/graphcore-graph.h storage/oqgraph/graphcore.h storage/oqgraph/graphcore-graph.cc \ storage/oqgraph/graphcore-types.h storage/oqgraph/graphcore-config.h storage/oqgraph/graphcore.cc \ storage/oqgraph/oqgraph_judy.* storage/oqgraph/oqgraph_shim.* storage/oqgraph/oqgraph_thunk.*
License: GPL-2+

-

Glob: include/aria.h include/myisamchk.h
License: GPL-2+

-

Glob: storage/aria/ma_rt_index.c storage/aria/ma_rt_mbr.c storage/aria/ma_sp_defs.h storage/aria/ma_rt_index.h storage/aria/ma_rt_mbr.h
Copyright: MySQL AB, Ramil Kalimullin, MySQL Finland AB

-

Glob: extra/yassl*COPYING
Contains: Everyone is permitted to copy and distribute verbatim copies
CopyrightExtract: &extract Copyright\s+\([Cc]\)\s(\Y+[\w\s,]+)\.
License: GPL-verbatim

-

Glob: storage/connect/CMakeLists.txt
VerifyLicense: GPL-2

-

Glob: storage/innobase/COPYING.*

CopyrightExtract: *extract
-
Glob: scripts/mysqlaccess.conf
MaxVersion: 5.6
License: GPL-2
Copyright: 1997 Yves.Carlier@rug.ac.be
-
Glob: mysys/sha1.c
MaxVersion: 5.6
Copyright:
- 2002, 2004, 2006 MySQL AB
- 2001 The Internet Society
-
Glob: regex/regexp.c
MaxVersion: 5.6
CopyrightExtract: *extract
VerifyLicense: UNKNOWN
License: BSD-like
-
Glob: libmysqld/lib_sql.cc
MaxVersion: 5.6
CopyrightExtract: \s**\s*Copyright\s*\(\c\)\s+(\Y+\s*\s*SWsoft\s+company)
License: SWsoft
-
Glob: debian/additions/mysqlreport*
MaxVersion: 5.6
Copyright: Daniel Nichter <public@codenode.com>
-
Glob: include/mysql_version.h.in
MaxVersion: 5.6
Copyright: 1996, 1999, 2001 MySQL AB
License: public-domain
-
Glob: cmd-line-utils/readline/COPYING extra/yassl/taocrypt/COPYING
Copyright: 1989, 1991 Free Software Foundation, Inc.
-
Glob: s*.h
VerifyLicense: BSD (3 clause) GPL (v2)
License: BSD-3-clause
or GPL-2
-
Glob: cmd-line-utils/readline* sql/* s*.sh
VerifyLicense: GPL (v2 or later)
License: GPL-2+
CopyrightExtract: &CE
(?:Copyright\s+\(\c\)\s+(\Y+Google\s+Inc)\. \s*\R+)(?:Copyright\s+\(\[Cc]\)\s+(\Y+(?:\s*\R\Y+)?\s*Free\s+Softw
are\s+Foundation,\s+Inc)\. \s*\R+)(?:Copyright\s+\(\c\)\s+(\Y+Oracle\s+and/or\s+its\s+affiliates)\. \s+All\s+rights\s+r
eserved\.\s+\&\s+(\tommy\@valley\.\ne\.\jp)\. \s*\R+)(?:Copyright\s+\(\c\)\s+(\Y+Sun\s+Microsystems,\s+Inc)\. \s*\R+

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-
Glob: scripts/*.pl

VerifyLicense: BSD (3 clause)

License: BSD-3-clause

CopyrightExtract: *CE

-
Glob: cmd-line-utils/*

MMagic: text/plain

VerifyLicense: BSD

Matches:

\s*[\#|^]*\s+Copyright\s+(\(c\))\s+(\?:1989,\s+)(\?:1990,\s+)(\?:1992,\s+)?1993\s+[\#|^]*\s+The\s+Regents\s+of\s+the\s+University\s+of\s+California

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-
Glob: zlib* storage/archive/azlib.h

MMagic: text/plain

CopyrightExtract: (\?:\s+Copyright\s+(\(C\))\s+(\Y+Jean-loup\s+Gailly)\s+and\s+(Mark\s+Adler)\s*\R+)(\?:\s+*\s+Copyright\s+(\(C\))\s+(\Y+Jean-loup\s+Gailly)\s*\R+)\s+(\?:\s+*\s+Copyright\s+(\(C\))\s+(\Y+Mark\s+Adler)\s*\R+))+

-
Glob: sql/* storage/* msys/*

MMagic: text/plain

VerifyLicense: Public domain GPL (v2)

License: GPL-2

CopyrightExtract: *CE

-
Glob: s* plugin/* mysql-test/*.p[lm] tests/* msys/* unittest/* include/* extra/* debug/*.pl cmd-line-utils/readline*

VerifyLicense: GPL (v2)

CopyrightExtract: *CE

-
Glob: extra/*

MMagic: text/plain

VerifyLicense: UNKNOWN

CopyrightExtract: *CE

Matches:

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-
Glob: storage/ndb/src/common/util/md5_hash.cpp

MaxVersion: 5.6

MMagic: text/plain

Contains: |

```
/*
 * 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.
 * 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.
 *
 * The code has been
modified by Mikael Ronstroem to handle
 * calculating a hash value of a key that is always a multiple
 * of 4 bytes long. Word 0 of the calculated 4-word hash value
 * is returned as the hash value.
 */
```

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-

Glob: mysys/md5.c

MaxVersion: 5.6

MMagic: text/plain

Contains: |

```
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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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```


README for Debian packaging contributors

This documentation describes how to contribute to the official Debian packages of MariaDB. The packaging in Debian repositories is not identical to the packaging in mariadb.org repositories, but whatever is in Debian repositories will eventually be upstreamed.

Development environment and tools

Use a recent version of Debian or Ubuntu as the environment for Debian packaging testing and development. Preferred environment is Debian Sid (unstable).

Install the tool used to manage and build the source

```
sudo apt-get install git-buildpackage
```

Getting the source

The official Debian package source is hosted on the Debian Gitlab server under the MariaDB/MySQL packaging team at <https://salsa.debian.org/mariadb-team/>. You are welcome to fork it and make merge requests.

To get the latest official Debian packaging source of mariadb-10.3, clone the source repository with all relevant branches (master, upstream, pristine-tar) to your local environment

using `_git-buildpackage_`:

```
gbp clone --pristine-tar https://salsa.debian.org/mariadb-team/mariadb-10.3.git
```

If you have your own fork and SSH keys set up on Salsa, you can run:

```
gbp clone --pristine-tar git@salsa.debian.org:<username>/mariadb-10.3.git
```

The clone needs to be run only once. On later runs you can refresh your clone with relevant branches using

```
gbp pull --pristine-tar --force
```

Building the packages

Build binaries, run testsuite and build Debian packages with

```
gbp buildpackage
```

On the first run `git-buildpackage` will complain if some of the build dependencies defined in `debian/control` are missing. Simply install those packages and run the build again.

A quick command to install all dependencies:

```
sudo mk-build-deps -r -i debian/control -t "apt-get -y -o Debug::pkgProblemResolver=yes --no-install-recommends"
```

If the build fails, the easiest way to clean up before a new run is
`git clean -fdx && git reset --hard`

Build options

If you want to skip the
mysql-test-run step (which takes a lot of time) set
the following environment variable:
`export DEB_BUILD_OPTIONS="nocheck"`

If you want to run the build in parallel on 2 CPUs and have verbose output:
`export DEB_BUILD_OPTIONS="parallel=2 verbose"`

The options above can also be combined freely to get desired behavior.

Creating a feature or bugfix branch

The repository has the following branch layout:

- * upstream - contains the upstream source releases without modifications
- * pristine-tar - contains extra delta needed to re-create the original tarballs with the exactly same SHA-1 hash as the original tarballs by upstream
- * master - packaging for Debian Sid (unstable)
- * jessie - release branch for Debian 8 (jessie)
- * stretch - release branch for Debian 9 (stretch)
- * ubuntu-16.04 - release branch for Ubuntu 16.04 (xenial)
- * ubuntu-18.04 - release branch for Ubuntu 18.04 (bionic)

All new features and also bugfixes are done only in the master branch. The
release

branches for Debian and Ubuntu are only used for security updates.

To prepare the Salsa pull request, create a bugfix branch from master with:
`git checkout -b fix-example-name`

After this you can develop with all the usual git commit and push commands
until you have in your fork at Salsa the desired change and you are ready
to open the merge request.

Notes about how to make changes in the proper way

First consider submitting your patch upstream. Upstream MariaDB makes frequent
maintenance releases and any fix done upstream will therefore be included in

Debian relatively quickly. You can send email to the developers mailing list or open a pull request at <https://github.com/MariaDB/server>.

Follow these instructions if your fix is about packaging in Debian specifically. Start by using gitk or similar tool to browse the previous changes. Try to follow similar pattern in your new changes.

Keep in mind that all changes must be done only for files residing in the debian/ subdirectory.

If you need to create changes outside the debian/ directory, then you need to create a patch file using the same pattern as the patches found in debian/patches and activated by a line in debian/patches/series

Do not bundle in your commit any changes to debian/changelog. The correct changelog entries will be created later by the maintainer using git-dch in an automated fashion.

For an example of a patch adding commit see <https://github.com/ottok/mariadb-10.0/commit/8d2a7c909>

Using Docker

First make a working directory for the build artefacts. Inside that directory clone the repository. Then start a Docker session using whatever Debian/Ubuntu image you want with the command:

```
docker run -it -v ${PWD}:/build -w /build debian:sid bash
```

This will start a session, where you are as the root user in the path /build inside the Docker container. Here you can cd into the source directory, install dependencies and start the build. Note that when you exit the session, everything will be lost apart from the files you had inside the mounted volume in /build.

Using sbuild

If you prefer sbuild, you can build with something like:

```
gbp buildpackage --git-builder=sbuild -A -v -d unstable
```

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: MariaDB Server

Upstream-Contact: <https://mariadb.org/jira>

Source: <https://github.com/MariaDB/server>

Comment:

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mysql-test/lib/mtr_unique.pm

mysql-test/lib/My/Config.pm

mysql-test/lib/My/CoreDump.pm

mysql-test/lib/My/File/*

mysql-test/lib/My/Find.pm

mysql-test/lib/My/Handles.pm

mysql-test/lib/My/Options.pm

mysql-test/lib/My/Platform.pm

mysql-test/lib/My/SafeProcess/Base.pm

mysql-test/lib/My/SafeProcess/safe_kill_win.cc

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mysql-test/lib/My/SysInfo.pm

mysql-test/lib/My/Test.pm

mysql-test/lib/t/*

mysql-test/lib/v1/mtr_cases.pl

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mysql-test/lib/v1/mysql-test-run.pl
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mysql-test/mysql-stress-test.pl
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mysql-test/lib/My/ConfigFactory.pm
mysql-test/mysql-stress-test.pl
BUILD/*.sh
BUILD/compile-solaris-amd64

BUILD/compile-amd64-valgrind-max
BUILD/compile-pentium64-max
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tests/pkcs11/pkcs11-mock.*

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fuzz/gnutls_dn_parser_fuzzer.c fuzz/gnutls_idna_parser_fuzzer.c
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fuzz/main.c

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* For English description, check RFC 5830.

* S-Boxes are expanded from the tables defined in RFC4357:

* <https://tools.ietf.org/html/rfc4357>

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* based on the Russian Standard GOST R 34.11-94.

* English description in RFC 5831.

* See also RFC 4357.

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lib/nettle/rnd-fuzzer.c

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```

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This package is maintained for Debian by Bdale Garbee <bdale@gag.com>, and was built from the sources found at:

<ftp://ftp.gnu.org/gnu/tar/>

More recently, I'm directly using the upstream source repository at

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1.141 python 3.7.3-2+deb10u7

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A. HISTORY OF THE SOFTWARE

=====

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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.

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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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1.142 exim 4.92-8+deb10u9

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```
#!/usr/bin/env perl
# Copyright (c) The Exim Maintainers 2016 - 2023
```

```
use strict;
use warnings;
use Carp;
use Cwd qw'abs_path';
use File::Basename;
use File::Path qw(make_path remove_tree);
use File::Temp;
```

```

use Getopt::Long;
use IO::File;
use Pod::Usage;
use Digest::SHA;
use feature 'state';
use if $ENV{DEBUG} => 'Smart::Comments';

my $ME = basename $0;

my $debug = undef;
my $verbose = 0;

# MAJOR.MINOR[.SECURITY[.FIXES]][-RCX]
# 4 .90 .0 .22 -RC1
my $version_pattern = qr/
  (?<release>
  (?<target_release>
    (?<major>\d) # 4
    \.(?<minor>\d+) # .90 or .105
    (?<security>\d+) # .0
    (?<fixes>\d+)? # .22
  ) # target-release ->|
  (?<rc>\d+)? # -RC1
  )
/x;

my $quick_version_pattern = qr/
  (?<release>
  (?<last_tag>
    (?<major>\d) # 4
    \.(?<minor>\d+)
    # .90 or .105
    (?<security>\d+) # .0
    (?<fixes>\d+)? # .22
  ) # last-tag ->|
  (?<quick>\d+-[[:xdigit:]]+)? # -3-gdeadbef
  )
/x;

# -----

package Context {
  use strict; # not strictly necessary yet, until in an own package
  use warnings; # not strictly necessary yet, ...
  use File::Spec::Functions qw/splitpath catfile catdir splitdir/;
  use File::Path qw/make_path remove_tree/;
  use File::Copy;

```



```

use Cwd qw'abs_path';
use Carp;

package PWD {
    use Cwd;
    sub TIESCALAR { bless do {\my $x} }
    sub FETCH { cwd }
}

tie my $cwd => 'PWD' or die; # this returns the current dir now, dynamically

sub new {
    my $class = shift;
    return bless { @_ } => $class;
}

sub check_version {
    my $context = shift;
    my $version = shift // 'HEAD';

    #
    # v => {
    #   release =>          4.92-RC4 | 4.92-27-gabcdef
    #   target_release|last_tag => 4.92  | 4.92
    #
    #   major  => 4
    #   minor  => 92
    #   security =>
    #   fixes  =>
    #
    #   rc|quick => RC4 | 27-gabcdef
    # }

    #
    # v => {
    #   release =>          4.92-RC4 | 4.92-27-gabcdef-dirty
    #   target_release|last_tag => 4.92  | 4.92
    #
    #   major  => 4
    #   minor  => 92
    #   security =>
    #   fixes  =>
    #
    #   rc|quick => RC4 | 27-gabcdef-dirty
    # }

    if ($context->{quick}) {
        # Try to find suitable version description
    }
}

```

```

chomp(my $describe = do { # we wrap it into a open() to avoid hassle with
    open(my $fh, '|', # strange version descriptions
        'git', describe => $version) or die;
    <$fh>
    } // exit 1);
$describe =~ /$quick_version_pattern/;

%{$context->{v}} = %+;
($context->{commit}) = $version // ($context->{v}{quick} =~ /g([[[:xdigit:]]+])/);
}
else {
    croak "The given version number does not look right - $version"
    if not $version =~ /$version_pattern/;
    %{$context->{v}} = %+;

    # find a valid vcs tag matching the version
    my $pattern = "$context->{pkgname}-$context->{v}{release}" =~ s/[-_]/[-_]/gr;
    chomp(my @tags = qx{git tag --list '$pattern'});

    croak "The given version is ambiguous, tags: @tags\n" if @tags > 1;
    croak "The given version does not exist (no such tag: exim-$version)\n" if @tags == 0;

    $context->{commit} = $tags[0];
    # target_release: the release we aim to reach with release candidates
    # FIXME: re-construct from the parsed version number
}

die "$ME: This script doesn't work for versions prior 4.92-RCx. "
    ."Please checkout an older version.\n"
    if $context->{v}{major} < 4
    or $context->{v}{major} == 4 && $context->{v}{minor} < 92;

### v: $context->{v}

}

# We prefer gtar to tar if gtar exists in $PATH
sub override_tar_cmd {
    my $context = shift;
    my $tar = $context->{tar_cmd};

    return unless $tar eq 'tar';

    foreach my $d (File::Spec->path()) {
        my $p = catfile($d, 'gtar');
        if (-x $p) {
            $context->{tar_cmd} = $p;
        }
    }
}

```

```

        print "Switched tar command to: $p\n" if $verbose;
        return;
    }
}

sub prepare_working_directory {
    my $context = shift;
    my $workspace = $context->{workspace};

    if (not defined $workspace) {
        $workspace = $context->{workspace} = File::Temp->newdir(
            TEMPLATE => File::Spec->tmpdir
        . '/exim-packaging-XXXX',
            CLEANUP => $context->{cleanup});
    }
    else {
        # ensure the working directory is not in place
        if (-e $workspace) {
            if ($context->{delete}) {
                print "Deleting existing $workspace\n" if $verbose;
                remove_tree $workspace, { verbose => $verbose || $debug };
            }
            else {
                croak "Working directory $workspace exists" if -e $workspace;
            }
        }

        # create base directory
        make_path( $context->{directory}, { verbose => $verbose || $debug } );
    }

    # Set(!) and create subdirectories
    foreach (qw(vcs_export pkg_tars pkg_trees tmp)) { # {dookbook}
        make_path(
            $context->{d}{$_} = catdir($workspace, $_),
            { verbose => $verbose || $debug });
    }
}

sub export_git_tree {
    my $context
= shift;

    # build git command
    my $archive_file = $context->{tmp_archive_file} = sprintf"%s/%s-%s.s.tar", $context->{d}{tmp}, $context-
>{pkgname}, $context->{v}{release};
    ### $archive_file

```

```

my @cmd = ( 'git', 'archive', '--format=tar', "--output=$archive_file", $context->{commit} );
### @cmd
# run git command
print "[${cwd}] Running: @cmd\n" if $verbose;
0 == system @cmd or croak "Export failed";
}

sub unpack_tree {
    # TODO: Why can't we combine the export_git_tree with the
    # unpack_tree function?
    my $context = shift;

    ### $context
    die "Cannot see archive file\n" unless -f $context->{tmp_archive_file};
    my @cmd = ('tar',
        xf => $context->{tmp_archive_file},
        -C => $context->{d}{vcs_export} );

    # run command
    print "[${cwd}] Running: @cmd\n" if $verbose;
    system @cmd and croak "Unpack failed\n";
}

sub make_version_script
{
    my $context = shift;

    #my $variant = substr( $context->{v}{release}, length($context->{v}{target_release} ) );
    #if ( $context->{v}{release} ne $context->{v}{target_release} . $variant ) {
    #    die "Broken version numbering, I'm buggy";
    #}

    # Work
    if (not my $pid = fork // die "$ME: Cannot fork: $!\n") {

        my $source_tree = catdir($context->{d}{vcs_export}, 'src', 'src');
        ### $source_tree

        chdir $source_tree or die "chdir $source_tree: $!\n";

        croak "WARNING: version.sh already exists - leaving it in place\n"
            if -f 'version.sh';

        # Currently (25. Feb. 2016) the mk_exim_release.pl up to now can't
        # deal with security releases.!? So we need a current
        # mk_exim_release.pl. But if we use a current (master), the

```

```

# reversion script returns wrong version info (it's running inside
# the Git tree and uses git --describe,
which always returns the
# current version of master.) I do not want to change the old
# reversion scripts (in 4.86.1, 4.85.1).
#
# Thus we've to provide the version.sh, based on the info we have
# about the release. If reversion finds this, it doesn't try to find
# it's own way to get a valid version number from the git.
#
# 4.89 series: the logic here did not handle _RC<N> thus breaking RC
# status in versions. nb: rc in context should be same as $variant
# in local context.

#my $stamp = $context->{minor} ? '_' . $context->{minor} : "";
#$stamp .= $context->{rc} if $context->{rc};
my $release = $context->{quick} ? $context->{v}{last_tag}
                : $context->{v}{target_release};

my $variant =
    $context->{v}{rc} ? $context->{v}{rc}
    : $context->{v}{quick}
? $context->{v}{quick}
  : "";

print "[${cwd}] create version.sh\n" if $verbose;
open(my $v, '>', 'version.sh') or die "Can't open version.sh for writing: ${!}\n";
print {$v} <<__;
# initial version automatically generated by $0
EXIM_RELEASE_VERSION=$release
EXIM_VARIANT_VERSION=$variant
EXIM_COMPILE_NUMBER=0
# echo "[[[ \${EXIM_RELEASE_VERSION} | \${EXIM_VARIANT_VERSION} | \${EXIM_COMPILE_NUMBER}
]]]"
—
close $v or die "$0: Can not close $source_tree/version.h: ${!}\n";
unlink 'version.h' or die "$ME: Can not unlink $source_tree/version.h: ${!}\n"
    if -f 'version.h';

# Later, if we get the reversion script fixed, we can call it again.
# For now (25. Feb. 2016) we'll leave it unused.
#my @cmd = ('./scripts/reversion', 'release', $context->{commit});

my @cmd = ('./scripts/reversion', 'release');
print "[${cwd}] Running: @cmd\n" if $verbose;
system(@cmd) and croak "reversion failed";

die "$ME: failed to create version.sh"

```

```

    unless -f 'version.sh';

    exit 0;
}
else {
    $pid == waitpid($pid, 0) or die "$0: waitpid: $!\n";
    exit $? >> 8 if $?;
}
}

sub build_documentation {
    my $context = shift;
    my $docdir = catdir $context->{d}{vcs_export}, 'doc', 'doc-docbook';

    # documentation building does a chdir, so we'll do it in a
    # subprocess
    if (not my $pid = fork // die "$ME: Can't fork: $!\n") {
        chdir $docdir or die "$ME: Can't chdir to $docdir: $!\n";
        system('./OS-Fixups') == 0 or exit $?;
        exec $context->{make_cmd},
            "EXIM_VER=$context->{v}{release}", 'everything'
            or die "$ME: [$cwd] Cannot exec $context->{make_cmd}: $!\n";
    }
    else {
        waitpid($pid, 0);
        exit $? >> 8 if $?;
    }

    $context->copy_docbook_files;
}

sub copy_docbook_files {
    my $context = shift;

    # where the generated docbook files can be found
    my $docdir = catdir $context->{d}{vcs_export}, 'doc', 'doc-docbook';

    foreach ('spec.xml', 'filter.xml') {
        my $from = catfile $docdir, $_;
        my $to = catdir $context->{d}{tmp}; # {dookbook}
        copy $from => $to or die $@;
    }
}

sub build_html_documentation {
    my $context = shift;

    # where the website docbook source dir is - push the generated

```

```

# files there
{
    my $webdir = catdir $context->{website_base}, 'docbook', $context->{v}{target_release};
    make_path $webdir, { verbose => $verbose || $debug };
    copy catfile($context->{d}{vcs_export}, 'doc', 'doc-docbook', $_)
        => $webdir or die $@
        for 'spec.xml', 'filter.xml';
}

my $gen = catfile $context->{website_base},
'script/gen';
my $outdir = catdir $context->{d}{pkg_trees}, "exim-html-$context->{v}{release}";

make_path $outdir, { verbose => $verbose || $debug };

my @cmd = (
    $gen,
    '--spec' => catfile($context->{d}{tmp}, 'spec.xml'), # {dookbook}
    '--filter' => catfile($context->{d}{tmp}, 'filter.xml'), # {dookbok}
    '--latest' => $context->{v}{target_release},
    '--docroot' => $outdir,
    '--localstatic',
    ($verbose || $debug ? '--verbose' : ()),
);

print "[$cwd] Executing @cmd\n";
0 == system @cmd or exit $? >> 8;

}

sub sign {
    my $context = shift;
    foreach my $tar (glob "$context->{d}{pkg_tars}/*") {
        system gpg =>
            '--quiet', '--batch',
            defined $context->{gpg}{key}
                ? ('--local-user' => $context->{gpg}{key})
                : (),
            '--detach-sig', '--armor', $tar;
    }
}

sub move_to_outdir {
    my $context = shift;
    make_path $context->{OUTDIR}, { verbose => $verbose || $debug };
    move $_ => $context->{OUTDIR} or die $@
        for glob "$context->{d}{pkg_tars}/*";
}

```

```

}

sub build_src_package_directory {
    my $context = shift;

    # build the exim package directory path
    $context->{d}{src} = catdir $context->{d}{pkg_trees}, "exim-$context->{v}{release}";

    # initially we move the exim-src directory to the new directory name
    move
        catdir( $context->{d}{vcs_export}, 'src')
        => $context->{d}{src}
    or croak "Move of src dir failed - $!";

    # add Local subdirectory
    make_path( catdir( $context->{d}{src}, 'Local' ), { verbose => $verbose || $debug } );

    # now add the text docs
    $context->move_text_docs_into_pkg;
}

sub build_doc_packages_directory {
    my $context = shift;

    ##foreach my $format (qw/pdf
postscript texinfo info) {
        foreach my $format (qw/pdf postscript) {
            my $target = catdir $context->{d}{pkg_trees}, "exim-$format-$context->{v}{release}", 'doc';
            make_path( $target, { verbose => $verbose || $debug } );

            # move documents across
            foreach my $file (
                glob(
                    catfile(
                        $context->{d}{vcs_export},
                        'doc',
                        'doc-docbook',
                        (
                            ( $format eq 'postscript' )
                            ? '*.ps'
                            : ( '*' . $format )
                        )
                    )
                )
            ) {
                move( $file, catfile( $target, ( splitpath($file) )[2] ) );
            }
        }
    }
}

```



```

    }
}

sub move_text_docs_into_pkg {
    my $context = shift;

    my $old_docdir = catdir( $context->{d}{vcs_export}, 'doc', 'doc-docbook'
);
    my $old_txtdir = catdir( $context->{d}{vcs_export}, 'doc', 'doc-txt' );
    my $new_docdir = catdir( $context->{d}{src}, 'doc' );
    make_path( $new_docdir, { verbose => $verbose || $debug } );

    # move generated documents from docbook stuff
    foreach my $file (qw/exim.8 spec.txt filter.txt/) {
        die "Empty file \"$file\"\n" if -z catfile( $old_docdir, $file );
        move( catfile( $old_docdir, $file ), catfile( $new_docdir, $file ) );
    }

    # move text documents across
    foreach my $file ( glob( catfile( $old_txtdir, '*' ) ) ) {

        # skip a few we dont want
        my $fn = ( splitpath($file) )[2];
        next
        if ( ( $fn eq 'ABOUT' )
            || ( $fn eq 'ChangeLog.0' )
            || ( $fn eq 'test-harness.txt' )
            # Debian issue re licensing of RFCs
            || ( $fn =~ /^draft-ietf-.*\/ )
            || ( $fn =~ /^rfc.*\/ )
        );

        move( $file, catfile( $new_docdir, $fn ) );
    }
}

sub create_tar_files {
    my $context = shift;

    my $pkg_tars = $context->{d}{pkg_tars};
    my $pkg_trees = $context->{d}{pkg_trees};
    my $tar = $context->{tar_cmd};
    if ($verbose) {
        foreach my $c (keys % { $context->{compressors} }) {
            print "Compression: $c\t${context->{compressors}}{$c}\n";
        }
    }
}

```

```

# We ideally do not want local system user information in release tarballs;
# those are artifacts of use of tar for backups and have no place in
# software release packaging; if someone extracts as root, then they should
# get sane file ownerships.
my @ownership = (
    '--owner' => $context->{tar_perms}{user},
    '--group' => $context->{tar_perms}{group},
    # on this GNU tar, --numeric-owner works during creation too
    '--numeric-owner'
) if qx/tar --help
2>&1/ =~ /\s*--owner=/m;

# See also environment variables set in main, tuning compression levels

my (%size, %sha256, %sha512);

foreach my $dir ( glob( catdir( $pkg_trees, ( 'exim*' . $context->{v}{release} ) ) ) ) {
    my $dirname = ( splitdir($dir) )[-1];
    foreach my $comp ( keys % { $context->{compressors} } ) {
        my %compressor = % { $context->{compressors} { $comp } };
        next unless $compressor{use};

        my $basename = "$dirname.tar.$compressor{extension}";
        my $outfile = catfile $pkg_tars, $basename;

        print "Creating: $outfile\n" if $verbose || $debug;
        0 == system($tar,
            cf => $outfile,
            $compressor{flags},
            @ownership, -C => $pkg_trees, $dirname)
            or exit $? >> 8;

        # calculate size and md5sum
        $size{$basename} = -s $outfile;

        $sha256{$basename} = Digest::SHA->new(256)->addfile($outfile)->hexdigest;
        $sha512{$basename} = Digest::SHA->new(512)->addfile($outfile)->hexdigest;
    }
}

# write the sizes file
if ($context->{sizes}) {
    for ([ sizes => 'SIZE' => \%size ],
        [ sha256sums => 'SHA256' => \%sha256 ],
        [ sha512sums => 'SHA512' => \%sha512 ] ) {

        my $outfile = catfile $pkg_tars, "00-$_->[0].txt";
        my $tag = $_->[1];

```

```

my $sizes = $_->[2];

open my $out, '>', $outfile
  or die "$ME: Can't open `Soutfile': $!\n";

print $out join "\n",
  (map { "stag ($_) = $sizes->{$_}" } sort keys %$sizes),
  ";

  close($out) or die "$ME: Can't close $outfile: $!\n";
}
}
}

sub do_cleanup {
  my $context = shift;

  print "Cleaning up\n" if $verbose;
  remove_tree $context->{d}{tmp}, { verbose => $verbose || $debug };
}

}

# Check, if tar understands --use-compress-program and use this, as
# at least gzip deprecated passing options via the environment.
sub compressor {
  my ($compressor, $fallback) = @_ ;
  state $use_compress_option =
    0 == system("tar c -f /dev/null -C / --use-compress-program=cat dev/null 2>/dev/null");
  return $use_compress_option
    ? "--use-compress-program=$compressor"
    : ref $fallback eq ref sub {} ? $fallback->() : $fallback;
}

MAIN: {

  # some of these settings are useful only if we're in the
  # exim-projekt-root, but the check, if we're, is deferred
  my $context = Context->new(
    pkgname    => 'exim',
    website_base => abs_path('./exim-website'),
    tar_cmd    => 'tar',
    tar_perms  => {
      user    => '0',
      group   => '0',
    },
    make_cmd   => 'make', # for 'make'ing the docs
    sizes

```

```

=> 1,
compressors => {
  gzip => { use => 1, extension => 'gz', flags => compressor('gzip -9', sub { $ENV{GZIP} = '-9'; '--gzip' }) },
  bzip2 => { use => 1, extension => 'bz2', flags => compressor('bzip2 -9', sub { $ENV{BZIP2} = '-9'; '--bzip2'
}) },
  xz => { use => 1, extension => 'xz', flags => compressor('xz -9', sub { $ENV{XZ_OPT} = '-9'; '--xz' }) },
  lzip => { use => 0, extension => 'lz', flags => compressor('lzip -9', '--lzip' ) },
},
docs => 1,
web => 1,
delete => 0,
cleanup => 1,
gpg => {
  sign => 1,
  key => undef,
},
quick => 0,
);

```

```
##$ENV{'PATH'} = /opt/local/bin:'. $ENV{'PATH'};
```

```

GetOptions(
  $context,
  qw(workspace|tmp=s website_base|webgen_base=s tar_cmd|tar-cmd=s make_cmd|make-cmd=s
  docs|build-docs! web|build-web! sizes!
  delete! cleanup!
quick|quick-release! minimal),
  'sign!' => \ $context->{gpg}{sign},
  'key=s' => \ $context->{gpg}{key},
  'verbose!' => \ $verbose,
  'compressors=s@' => sub {
    die "$0: can't parse compressors string `$_[1]\n" unless $_[1] =~ /^[+=-]?w+(?:[+=-]\w+)*$/;
    while ($_[1] =~ /(?!<act>[+=-])?(?!<name>\w+)\b/g) {
      die "$0: Unknown compressor ${name}"
      unless $context->{compressors}{${name}};
      if (not defined ${act} or ${act} eq '=') {
        $_->{use} = 0
        for values % { $context->{compressors} };
        $context->{compressors}{${name}}{use}++;
      }
      elsif (${act} eq '+') { $context->{compressors}{${name}}{use}++; }
      elsif (${act} eq '-') { $context->{compressors}{${name}}{use}--; }
    }
  },
  'debug:s' => \ $debug,
  'quick' => sub {
    $context->{web}--; $context->{quick} = 1 },
  'help|?' => sub { pod2usage(-verbose => 1, -exit => 0) },

```

```

'man!'      => sub { pod2usage(-verbose => 2, -exit => 0, -noperldoc => system('perldoc -V >/dev/null
2>&1')) },
) and (@ARGV == 2 or ($context->{quick} and @ARGV >= 1))
  or pod2usage;

-f '.exim-project-root'
  or die "$ME: please call this script from the root of the Exim project sources\n";

$context->{OUTDIR} = pop @ARGV;

if ($context->{gpg}{sign}) {
  $context->{gpg}{key} //= do { chomp($_ = qx/git config user.signingkey/); $_ }
  || $ENV{EXIM_KEY}
  || do {
    warn "$ME: No GPG key, using default\n";
    undef;
  }
}

warn "$ME: changed umask to 022\n" if umask(022) != 022;

$context->check_version(shift); # may be undef for a quick release

if ($debug//" eq 'version') {
  for (sort keys %{$context->{v}}) {
    print "version $_: $context->{v}{$_}\n";
  }
  print "git commit: $context->{commit}\n";
  exit 0;
}
$context->override_tar_cmd;
$context->prepare_working_directory;
$context->export_git_tree;
$context->unpack_tree;
$context->make_version_script;

$context->build_documentation if $context->{docs};
$context->build_html_documentation if $context->{docs} && $context->{web};

$context->build_src_package_directory;
$context->build_doc_packages_directory if $context->{docs};

$context->create_tar_files;
$context->sign if $context->{gpg}{sign};
$context->move_to_outdir;
$context->do_cleanup if $context->{cleanup};

```

```
### $context
}
```

```
1;
```

```
__END__
```

```
=head1 NAME
```

```
mk_exim_release - Build an exim release
```

```
=head1 SYNOPSIS
```

```
mk_exim_release [options] version PKG-DIRECTORY
mk_exim_release [options] --quick [version] PKG-DIRECTORY
```

```
=head1 DESCRIPTION
```

B<mk_exim_release> builds an exim release.

Starting in a populated git repo that has already been tagged for release it builds docs, packages etc. Parameter is the version number to build as - ie 4.72 4.72-RC1, 4.86.1, etc, without any prefix.

This scripts expects to find a tag "exim-<version>".

After creating the release files, they should be signed. There is another helper for creating the signatures:

```
F<release-process/scripts/sign_exim_packages>.
```

Call B<mk_exim_release> about like this:

```
release-process/scripts/mk_exim_release 4.99 OUT-DIR
```

```
=head1 OPTIONS
```

```
=over 4
```

```
=item B<--[no]cleanup>
```

Do (or do not) cleanup the tmp directory at exit (default: do cleanup)

```
=item B<--compressors> [I<action>]I<compressor[I<action>]<compressor>]...
```

A list of compressors to use. Currently the default list is B<gzip>, B<xz>, and B<bzip2>, with B<lzip> optionally to be enabled.

I<action> can be "+" (add), "-" (remove), and "=" (set).

=item B<--debug[=I<item>]>

Forces debug mode. If (default: no debug info)

=over 4

=item item: B<version>

Output the parsed/found version number and exit.

=back

=item

B<--[no]delete>

Delete a pre-existing tmp- and package-directory at start. (default: don't delete)

=item B<--[no]doc>

Do (not) build the documentation. This needs C<gnu-make> (default: build the docs)

=item B<--[no]help>

Display short help and exit cleanly. (default: don't do that)

=item B<--key> I<GPG key>

Use this GPG key for signing. If nothing is specified the first one of this list is used:

=over 8

=item - git config user.signingkey

=item - environment C<EXIM_KEY>

=item - default GPG key

=back

=item B<--make-cmd> I<cmd>

Force the use of a specific C<make> command. This may be necessary if C<make> is not C<gmake>. This is necessary to build the docs. (default: C<make>)

=item B<--[no]man>

Display man page and exit cleanly. (default: don't do that)

=item B<--quick>

Create a quick release. The I<version> mandatory argument needs to be a git commit-ish. (try I<master> or I<HEAD> or similar). This mode switches off the website creation (which can be enabled by B<--web> again).

=item B<--[no]sign>

Sign the created archive files (and the sizes.txt). (default: sign)

=item B<--[no]sizes>

Write the sizes information to F<sizes.txt>. (default: write sizes)

=item B<--tar-cmd> I<cmd>

Use to override the path to the C<tar> command. Need GNU tar in case I<gzip> is selected. (default: C<gtar>, if not found, use C<tar>).

=item B<--tmpdir> I<dir>

Change the name of the tmp directory (default: temporary directory)

=item B<--verbose>

Force verbose mode. (default: no verbosity)

=item B<--[no]web>

Control the creation of the website. For creation of the website, the F<../exim-website> (but see the B<website-base> option) directory must exist. (default: create the website, except when in B<quick> mode)

=item B<--website-base> I<dir>

Base directory for the web site generation (default: F<../exim-website>)

=item B<-workspace>|B<--tmp> I<directory>

During release generation temporary storage is necessary. (default: F<exim-packaging-XXXX> under your system's default temporary directory (typically this is F</tmp>)).

=back

=head1 AUTHOR

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some changes by Heiko Schlittermann <hs@schlittermann.de>

=head1 COPYRIGHT

Copyright 2010-2016 Exim Maintainers. All rights reserved.

=cut

vim: set sw=4 et :

Found in path(s):

* /opt/cola/permits/1892616876_1713765866.8546398/0/mk-exim-release-tar/mk_exim_release.txt

1.143 util-linux 2.33.1-0.1+deb10u1

1.143.1 Available under license :

NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01

2 7680 16383 8704 4.3M 8f8378c0-02

5 7936 12799 4864 2.4M

6 12544 16127 3584 1.8M

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: util-linux

Upstream-Contact: util-linux@vger.kernel.org

Source: <https://www.kernel.org/pub/linux/utils/util-linux/>

Files: *

Copyright: Michal Luscon <mluscon@redhat.com>

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1999-2002 Transmeta Corporation
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Files: schedutils/ionice.c

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schedutils/taskset.c

Copyright: 2004 Robert Love <rml@tech9.net>

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Files: disk-utils/raw.c

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Files: sys-utils/hwclock-parse-date.y

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1999, 2004 Paul Eggert <eggert@twinsun.com>

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Files: sys-utils/nsenter.c

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Files: disk-utils/mkfs.minix.c

disk-utils/mkswap.c

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Files: lib/blkdev.c

lib/loopdev.c

lib/sysfs.c

lib/ttyutils.c

misc-utils/mcookie.c

sys-utils/setsid.c

text-utils/line.c

Copyright: n/a

License: public-domain

Files: login-utils/vipw.c

misc-utils/cal.c

misc-utils/kill.c

misc-utils/logger.c

misc-utils/look.c

misc-utils/whereis.c

sys-utils/renice.c

term-utils/mesg.c

term-utils/script.c

term-utils/ttymsg.c

term-utils/wall.c

term-utils/write.c

text-utils/col.c

text-utils/colcrt.c

text-utils/colrm.c

text-utils/column.c

text-utils/hexdump.c

text-utils/hexdump.h

text-utils/hexdump-conv.c

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WEV[B "1

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

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  <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;', '')">

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      <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">
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          <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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- * `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.

Author: Julio Merino <jmmv84@gmail.com>

=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

Internet Engineering Task Force	R.E. Gilligan (FreeGate)
INTERNET-DRAFT	S. Thomson (Bellcore)
Obsoletes RFC 2133	Jim Bound (Compaq)
	W. R. Stevens (Consultant)
	January 25, 1999

Basic Socket Interface Extensions for IPv6

<draft-ietf-ipngwg-bsd-api-new-06.txt>

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Abstract

The de facto standard application program interface (API) for TCP/IP applications is the "sockets" interface. Although this API was developed for Unix in the early 1980s it has also been implemented on a wide variety of non-Unix systems. TCP/IP applications written using the sockets API have in

the past enjoyed a high degree of portability and we would like the same portability with IPv6 applications. But changes are required to the sockets API to support IPv6 and this memo describes these changes. These include a new socket address structure to carry IPv6 addresses, new address conversion functions, and some new socket options. These extensions are designed to provide access to the basic IPv6 features required by TCP and UDP applications, including multicasting, while introducing a minimum of change into the system and providing complete compatibility for existing IPv4 applications. Additional extensions for advanced IPv6 features (raw sockets and access to the IPv6 extension headers) are defined in another document [4].

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1. Introduction

While IPv4 addresses are 32 bits long, IPv6 interfaces are identified by 128-bit addresses. The socket interface makes the size of an IP address quite visible to an application; virtually all TCP/IP applications for BSD-based systems have knowledge of the size of an IP address. Those parts of the API that expose the addresses must be changed to accommodate the larger IPv6 address size. IPv6 also introduces new features (e.g., traffic class and flowlabel), some of which must be made visible to applications via the API. This memo defines a set of extensions to the socket interface to support the larger address size and new features of IPv6.

2. Design Considerations

There are a number of important considerations in designing changes to this well-worn API:

- The API changes should provide both source and binary compatibility for programs written to the original API. That is, existing program binaries should continue to operate when run on a system supporting the new API. In addition, existing applications that are re-compiled and run on a system supporting the new API should continue to operate. Simply put, the API changes for IPv6 should not break existing programs. An additional mechanism

for implementations to verify this is to verify the new symbols are protected by Feature Test Macros as described in IEEE Std 1003.1. (Such Feature Test Macros are not defined by this RFC.)

- The changes to the API should be as small as possible in order to simplify the task of converting existing IPv4 applications to IPv6.
- Where possible, applications should be able to use this API to interoperate with both IPv6 and IPv4 hosts. Applications should not need to know which type of host they are communicating with.
- IPv6 addresses carried in data structures should be 64-bit aligned. This is necessary in order to obtain optimum performance on 64-bit machine architectures.

Because of the importance of providing IPv4 compatibility in the API, these extensions are explicitly designed to operate on machines that provide complete support for both IPv4 and IPv6. A subset of this API could probably be designed for operation on systems that support only IPv6. However, this is not addressed in this memo.

2.1 What Needs to be Changed

The socket interface API consists of a few distinct components:

- Core socket functions.

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- Address data structures.
- Name-to-address translation functions.
- Address conversion functions.

The core socket functions -- those functions that deal with such things as setting up and tearing down TCP connections, and sending and

receiving UDP packets -- were designed to be transport independent. Where protocol addresses are passed as function arguments, they are carried via opaque pointers. A protocol-specific address data structure is defined for each protocol that the socket functions support. Applications must cast pointers to these protocol-specific address structures into pointers to the generic "sockaddr" address structure when using the socket functions. These functions need not change for IPv6, but a new IPv6-specific address data structure is needed.

The "sockaddr_in" structure is the protocol-specific data structure for IPv4. This data structure actually includes 8-octets of unused space, and it is tempting to try to use this space to adapt the sockaddr_in structure to IPv6. Unfortunately, the sockaddr_in structure is not large enough to hold the 16-octet IPv6 address as well as the other information (address family and port number) that is needed. So a new address data structure must be defined for IPv6.

IPv6 addresses are scoped [2] so they could be link-local, site, organization, global, or other scopes at this time undefined. To support applications that want to be able to identify a set of interfaces for a specific scope, the IPv6 sockaddr_in structure must support a field that can be used by an implementation to identify a set of interfaces identifying the scope for an IPv6 address.

The name-to-address translation functions in the socket interface are gethostbyname() and gethostbyaddr(). These are left as is and new functions are defined to support IPv4 and IPv6. Additionally, the POSIX 1003.g draft [3] specifies a new nodename-to-address translation function which is protocol independent. This function can also be used with IPv4 and IPv6.

The address conversion functions -- inet_ntoa() and inet_addr() -- convert IPv4 addresses between binary and printable form. These functions are quite specific to 32-bit IPv4 addresses. We have designed two analogous functions that convert both IPv4 and IPv6 addresses, and carry an address type parameter so that they can be extended to other protocol families as well.

Finally, a few miscellaneous features are needed to support IPv6. New interfaces are needed to support the IPv6 traffic class, flow label, and hop limit header fields. New socket options are needed to control the sending and receiving of IPv6 multicast packets.

The socket interface will be enhanced in the future to provide access to other IPv6 features. These extensions are described in [4].

2.2 Data Types

The data types of the structure elements given in this memo are intended to be examples, not absolute requirements. Whenever possible, data types from Draft 6.6 (March 1997) of POSIX 1003.1g are used: `uintN_t` means an unsigned integer of exactly N bits (e.g., `uint16_t`). We also assume the argument data types from 1003.1g when possible (e.g., the final argument to `setsockopt()` is a `size_t` value). Whenever buffer sizes are specified, the POSIX 1003.1 `size_t` data type is used (e.g., the two length arguments to `getnameinfo()`).

2.3 Headers

When function prototypes and structures are shown we show the headers that must be `#included` to cause that item to be defined.

2.4

Structures

When structures are described the members shown are the ones that must appear in an implementation. Additional, nonstandard members may also be defined by an implementation. As an additional precaution nonstandard members could be verified by Feature Test Macros as described in IEEE Std 1003.1. (Such Feature Test Macros are not defined by this RFC.)

The ordering shown for the members of a structure is the recommended ordering, given alignment considerations of multibyte members, but an implementation may order the members differently.

3. Socket Interface

This section specifies the socket interface changes for IPv6.

3.1 IPv6 Address Family and Protocol Family

A new address family name, AF_INET6, is defined in <sys/socket.h>. The AF_INET6 definition distinguishes between the original sockaddr_in address data structure, and the new sockaddr_in6 data structure.

A new protocol family name, PF_INET6, is defined in <sys/socket.h>. Like most of the other protocol family names, this will usually be defined to have the same value as the corresponding address family name:

```
#define PF_INET6    AF_INET6
```

The PF_INET6 is used in the first argument to the socket() function to indicate that an IPv6 socket is being created.

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3.2 IPv6 Address Structure

A new in6_addr structure holds a single IPv6 address and is defined as a result of including <netinet/in.h>:

```
struct in6_addr {
    uint8_t s6_addr[16]; /* IPv6 address */
};
```

This data structure contains an array of sixteen 8-bit elements, which make up one 128-bit IPv6 address. The IPv6 address is stored in network byte order.

The structure in6_addr above is usually implemented with an embedded union with extra fields that force the desired alignment level in a

manner similar to BSD implementations of "struct in_addr". Those additional implementation details are omitted here for simplicity.

An example is as follows:

```
struct in6_addr {
    union {
        uint8_t  _S6_u8[16];
        uint32_t _S6_u32[4];
        uint64_t _S6_u64[2];
    } _S6_un;
};
#define s6_addr _S6_un._S6_u8
```

3.3 Socket Address Structure for 4.3BSD-Based Systems

In the socket interface, a different protocol-specific data structure is defined to carry the addresses for each protocol suite. Each protocol-specific data structure is designed so it can be cast into a protocol-independent data structure -- the "sockaddr" structure. Each has a "family" field that overlays the "sa_family" of the sockaddr data structure. This field identifies the type of the data structure.

The sockaddr_in structure is the protocol-specific address data structure for IPv4. It is used to pass addresses between applications and the system in the socket functions. The following sockaddr_in6 structure holds IPv6 addresses and is defined as a result of including the <netinet/in.h> header:

```
struct sockaddr_in6 {
    sa_family_t  sin6_family; /* AF_INET6 */
    in_port_t    sin6_port;   /* transport layer port # */
    uint32_t     sin6_flowinfo; /* IPv6 traffic class & flow info */
    struct in6_addr sin6_addr; /* IPv6 address */
    uint32_t     sin6_scope_id; /* set of interfaces for a scope */
};
```

This structure is designed to be compatible with the sockaddr data structure used in the 4.3BSD release.

The sin6_family field identifies this as a sockaddr_in6 structure. This

field overlays the `sa_family` field when the buffer is cast to a `sockaddr` data structure. The value of this field must be `AF_INET6`.

The `sin6_port` field contains the 16-bit UDP or TCP port number. This field is used in the same way as the `sin_port` field of the `sockaddr_in` structure.

The port number is stored in network byte order.

The `sin6_flowinfo` field is a 32-bit field that contains two pieces of information: the traffic class and the flow label. The contents and interpretation of this member is specified in [1]. The `sin6_flowinfo` field SHOULD be set to zero by an implementation prior to using the `sockaddr_in6` structure by an application on receive operations.

The `sin6_addr` field is a single `in6_addr` structure (defined in the previous section). This field holds one 128-bit IPv6 address. The address is stored in network byte order.

The ordering of elements in this structure is specifically designed so that when `sin6_addr` field is aligned on a 64-bit boundary, the start of the structure will also be aligned on a 64-bit boundary. This is done for optimum performance on 64-bit architectures.

The `sin6_scope_id` field is a 32-bit integer that identifies a set of interfaces as appropriate for the scope of the address carried in the `sin6_addr` field. For a link scope `sin6_addr` `sin6_scope_id` would be an interface index. For a site scope `sin6_addr`, `sin6_scope_id` would be a site identifier. The mapping of `sin6_scope_id` to an interface or set of interfaces is left to implementation and future specifications on the subject of site identifiers.

Notice that the `sockaddr_in6` structure will normally be larger than the generic `sockaddr` structure. On many existing implementations the `sizeof(struct sockaddr_in)` equals `sizeof(struct sockaddr)`, with both being 16 bytes. Any existing code that makes this assumption needs to be examined carefully when converting to IPv6.

3.4 Socket Address Structure for 4.4BSD-Based Systems

The 4.4BSD release includes a small, but incompatible change to the

socket interface. The "sa_family" field of the sockaddr data structure was changed from a 16-bit value to an 8-bit value, and the space saved used to hold a length field, named "sa_len". The sockaddr_in6 data structure given in the previous section cannot be correctly cast into the newer sockaddr data structure. For this reason, the following alternative IPv6 address data structure is provided to be used on systems based on 4.4BSD. It is defined as a result of including the <netinet/in.h> header.

```
struct sockaddr_in6 {
    uint8_t    sin6_len;    /* length of this struct */
    sa_family_t sin6_family; /* AF_INET6 */
    in_port_t  sin6_port;   /* transport layer port # */
    uint32_t   sin6_flowinfo; /* IPv6 flow information */
    struct in6_addr sin6_addr; /* IPv6 address */
    uint32_t   sin6_scope_id; /* set of interfaces for a scope */
};
```

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The only differences between this data structure and the 4.3BSD variant are the inclusion of the length field, and the change of the family field to a 8-bit data type.

The definitions of all the other fields are identical to the structure defined in the previous section.

Systems that provide this version of the sockaddr_in6 data structure must also declare SIN6_LEN as a result of including the <netinet/in.h> header. This macro allows applications to determine whether they are being built on a system that supports the 4.3BSD or 4.4BSD variants of the data structure.

3.5 The Socket Functions

Applications call the socket() function to create a socket descriptor that represents a communication endpoint. The arguments to the socket() function tell the system which protocol to use, and what format address structure will be used in subsequent functions. For example, to create an IPv4/TCP socket, applications make the call:

```
s = socket(PF_INET, SOCK_STREAM, 0);
```

To create an IPv4/UDP socket, applications make the call:

```
s = socket(PF_INET, SOCK_DGRAM, 0);
```

Applications may create IPv6/TCP and IPv6/UDP sockets by simply using the constant `PF_INET6`

instead of `PF_INET` in the first argument. For example, to create an IPv6/TCP socket, applications make the call:

```
s = socket(PF_INET6, SOCK_STREAM, 0);
```

To create an IPv6/UDP socket, applications make the call:

```
s = socket(PF_INET6, SOCK_DGRAM, 0);
```

Once the application has created a `PF_INET6` socket, it must use the `sockaddr_in6` address structure when passing addresses in to the system.

The functions that the application uses to pass addresses into the system are:

```
bind()  
connect()  
sendmsg()  
sendto()
```

The system will use the `sockaddr_in6` address structure to return addresses to applications that are using `PF_INET6` sockets. The functions that return an address from the system to an application are:

```
accept()  
recvfrom()  
recvmsg()  
getpeername()  
getsockname()
```

No changes to the syntax of the socket functions are needed to support

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IPv6, since all of the "address carrying" functions use an opaque

address pointer, and carry an address length as a function argument.

3.6 Compatibility with IPv4 Applications

In order to support the large base of applications using the original API, system implementations must provide complete source and binary compatibility with the original API. This means that systems must continue to support PF_INET sockets and the sockaddr_in address structure. Applications must be able to create IPv4/TCP and IPv4/UDP sockets using the PF_INET constant in the socket() function, as described in the previous section. Applications should be able to hold a combination of IPv4/TCP, IPv4/UDP, IPv6/TCP and IPv6/UDP sockets simultaneously within the same process.

Applications using the original API should continue to operate as they did on systems supporting only IPv4. That is, they should continue to interoperate with IPv4 nodes.

3.7 Compatibility with IPv4 Nodes

The

API also provides a different type of compatibility: the ability for IPv6 applications to interoperate with IPv4 applications. This feature uses the IPv4-mapped IPv6 address format defined in the IPv6 addressing architecture specification [2]. This address format allows the IPv4 address of an IPv4 node to be represented as an IPv6 address. The IPv4 address is encoded into the low-order 32 bits of the IPv6 address, and the high-order 96 bits hold the fixed prefix 0:0:0:0:FFFF. IPv4-mapped addresses are written as follows:

```
::FFFF:<IPv4-address>
```

These addresses can be generated automatically by the getipnodebyname() function when the specified host has only IPv4 addresses (as described in Section 6.1).

Applications may use PF_INET6 sockets to open TCP connections to IPv4 nodes, or send UDP packets to IPv4 nodes, by simply encoding the destination's IPv4 address as an IPv4-mapped IPv6 address, and passing that address, within a sockaddr_in6 structure, in the connect() or sendto() call. When applications use PF_INET6 sockets to accept TCP connections from IPv4 nodes, or receive UDP packets from IPv4 nodes, the system returns the peer's address to the application in the accept(),

recvfrom(), or getpeername() call using a sockaddr_in6 structure encoded this way.

Few applications will likely need to know which type of node they are interoperating with. However, for those applications that do need to know, the IN6_IS_ADDR_V4MAPPED() macro, defined in Section 6.7, is provided.

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3.8 IPv6 Wildcard Address

While the bind() function allows applications to select the source IP address of UDP packets and TCP connections, applications often want the system to select the source address for them. With IPv4, one specifies the address as the symbolic constant INADDR_ANY (called the "wildcard" address) in the bind() call, or simply omits the bind() entirely.

Since the IPv6 address type is a structure (struct in6_addr), a symbolic constant can be used to initialize an IPv6 address variable, but cannot be used in an assignment. Therefore systems provide the IPv6 wildcard address in two forms.

The first version is a global variable named "in6addr_any" that is an in6_addr structure. The extern declaration for this variable is defined in <netinet/in.h>:

```
extern const struct in6_addr in6addr_any;
```

Applications use in6addr_any similarly to the way they use INADDR_ANY in IPv4. For example, to bind a socket to port number 23, but let the system select the source address, an application could use the following code:

```
struct sockaddr_in6 sin6;  
...  
sin6.sin6_family = AF_INET6;  
sin6.sin6_flowinfo = 0;
```

```

sin6.sin6_port = htons(23);
sin6.sin6_addr = in6addr_any; /* structure assignment */
...
if (bind(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
    ..
.

```

The other version is a symbolic constant named `IN6ADDR_ANY_INIT` and is defined in `<netinet/in.h>`. This constant can be used to initialize an `in6_addr` structure:

```

struct in6_addr anyaddr = IN6ADDR_ANY_INIT;

```

Note that this constant can be used **ONLY** at declaration time. It can not be used to assign a previously declared `in6_addr` structure. For example, the following code will not work:

```

/* This is the WRONG way to assign an unspecified address */
struct sockaddr_in6 sin6;
...
sin6.sin6_addr = IN6ADDR_ANY_INIT; /* will NOT compile */

```

Be aware that the IPv4 `INADDR_xxx` constants are all defined in host byte order but the IPv6 `IN6ADDR_xxx` constants and the IPv6 `in6addr_xxx` externals are defined in network byte order.

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3.9 IPv6 Loopback Address

Applications may need to send UDP packets to, or originate TCP connections to, services residing on the local node. In IPv4, they can do this by using the constant IPv4 address `INADDR_LOOPBACK` in their `connect()`, `sendto()`, or `sendmsg()` call.

IPv6 also provides a loopback address to contact local TCP and UDP

services. Like the unspecified address, the IPv6 loopback address is provided in two forms -- a global variable and a symbolic constant.

The global variable is an `in6_addr` structure named `"in6addr_loopback."` The extern declaration for this variable is defined in `<netinet/in.h>`:

```
extern const struct in6_addr in6addr_loopback;
```

Applications use `in6addr_loopback` as they would use `INADDR_LOOPBACK` in IPv4 applications (but beware of the byte ordering difference mentioned at the end of the previous section). For example, to open a TCP connection to the local telnet server, an application could use the following code:

```
struct sockaddr_in6 sin6;
...
sin6.sin6_family = AF_INET6;
sin6.sin6_flowinfo = 0;
sin6.sin6_port = htons(23);

sin6.sin6_addr = in6addr_loopback; /* structure assignment */
...
if (connect(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
    ...
```

The symbolic constant is named `IN6ADDR_LOOPBACK_INIT` and is defined in `<netinet/in.h>`. It can be used at declaration time ONLY; for example:

```
struct in6_addr loopbackaddr = IN6ADDR_LOOPBACK_INIT;
```

Like `IN6ADDR_ANY_INIT`, this constant cannot be used in an assignment to a previously declared IPv6 address variable.

3.10 Portability Additions

One simple addition to the sockets API that can help application writers is the `"struct sockaddr_storage"`. This data structure can simplify writing code portable across multiple address families and platforms. This data structure is designed with the following goals.

- It has a large enough implementation specific maximum size to store the desired set of protocol specific socket address data structures. Specifically, it is at least large enough to accommodate `sockaddr_in`

and `sockaddr_in6` and possibly other protocol specific socket addresses too.

- It is aligned at an appropriate boundary so protocol specific socket address data structure pointers can be cast to it and access their fields without alignment problems. (e.g. pointers to sockaddr_in6 and/or sockaddr_in can be cast to it and access fields without alignment

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problems).

- It has the initial field(s) isomorphic to the fields of the "struct sockaddr" data structure on that implementation which can be used as a discriminants for deriving the protocol in use. These initial field(s) would on most implementations either be a single field of type "sa_family_t" (isomorphic to sa_family field, 16 bits) or two fields of type uint8_t and sa_family_t respectively, (isomorphic to sa_len and sa_family_t, 8 bits each).

An example implementation design of such a data structure would be as follows.

```

/*
 * Desired design of maximum size and alignment
 */
#define _SS_MAXSIZE 128 /* Implementation specific max size */
#define _SS_ALIGNSIZE (sizeof (int64_t))
                        /* Implementation specific desired alignment */
/*
 * Definitions used for sockaddr_storage structure paddings design.
 */
#define _SS_PAD1SIZE (_SS_ALIGNSIZE - sizeof (sa_family_t))
#define _SS_PAD2SIZE (_SS_MAXSIZE - (sizeof (sa_family_t)+
                        _SS_PAD1SIZE + _SS_ALIGNSIZE))
struct sockaddr_storage {
    sa_family_t __ss_family; /* address family */
    /* Following fields are implementation specific */
    char __ss_pad1[_SS_PAD1SIZE];
        /* 6 byte pad, this is to make implementation
        /* specific pad up to alignment field that */
        /* follows explicit in the data structure */
    int64_t __ss_align; /* field to force
desired structure */
        /* storage alignment */
    char __ss_pad2[_SS_PAD2SIZE];

```

```

    /* 112 byte pad to achieve desired size, */
    /* __SS_MAXSIZE value minus size of ss_family */
    /* __ss_pad1, __ss_align fields is 112 */
};

```

On implementations where sockaddr data structure includes a "sa_len", field this data structure would look like this:

```

/*
 * Definitions used for sockaddr_storage structure paddings design.
 */
#define __SS_PAD1SIZE (_SS_ALIGNSIZE -
    (sizeof (uint8_t) + sizeof (sa_family_t))
#define __SS_PAD2SIZE (_SS_MAXSIZE - (sizeof (sa_family_t)+
    __SS_PAD1SIZE + __SS_ALIGNSIZE))
struct sockaddr_storage {
    uint8_t    __ss_len;    /* address length */
    sa_family_t __ss_family; /* address family */
    /* Following fields are implementation specific */
    char    __ss_pad1[__SS_PAD1SIZE];
        /* 6 byte pad, this is to make implementation
        /* specific pad up to alignment field that */
        /* follows explicit in the data structure */
    int64_t    __ss_align; /* field to force desired structure */

```

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```

    /* storage alignment */
    char    __ss_pad2[__SS_PAD2SIZE];
        /* 112 byte pad to achieve desired size, */
        /* __SS_MAXSIZE value minus size of ss_len, */
        /* __ss_family, __ss_pad1, __ss_align fields is 112 */
};

```

The above example implementation illustrates a data structure which will align on a 64 bit boundary. An implementation specific field "__ss_align" along "__ss_pad1" is used to force a 64-bit alignment which covers proper alignment good enough for needs of sockaddr_in6 (IPv6), sockaddr_in (IPv4) address data structures. The size of padding fields __ss_pad1 depends on the chosen alignment boundary. The size of padding field __ss_pad2 depends on the value of overall size chosen for the total size of the structure. This size and alignment are represented in

the above example by implementation specific (not required) constants `_SS_MAXSIZE` (chosen value 128) and `_SS_ALIGNMENT` (with chosen value 8). Constants `_SS_PAD1SIZE` (derived value 6) and `_SS_PAD2SIZE` (derived value 112) are also for illustration and not required. The implementation specific definitions and structure field names above start with an underscore to denote implementation private namespace. Portable code is not expected to access or reference those fields or constants.

The `sockaddr_storage` structure solves the problem of declaring storage for automatic variables which is large enough and aligned enough for storing socket address data structure of any family. For example, code with a file descriptor and without the context of the address family can pass a pointer to a variable of this type where a pointer to a socket address structure is expected in calls such as `getpeername()` and determine the address family by accessing the received content after the call.

The `sockaddr_storage` structure may also be useful and applied to certain other interfaces where a generic socket address large enough and aligned for use with multiple address families may be needed. A discussion of those interfaces is outside the scope of this document.

Also, much existing code assumes that any socket address structure can fit in a generic `sockaddr` structure. While this has been true for IPv4 socket address structures, it has always been false for Unix domain socket address structures (but in practice this has not been a problem) and it is also false for IPv6 socket address structures (which can be a problem).

So now an application can do the following:

```
struct sockaddr_storage __ss;
struct sockaddr_in6 *sin6;
sin6 = (struct sockaddr_in6 *) &__ss;
```

4. Interface Identification

This

API uses an interface index (a small positive integer) to identify the local interface on which a multicast group is joined (Section 5.3). Additionally, the advanced API [4] uses these same interface indexes to identify the interface on which a datagram is received, or to specify

the interface on which a datagram is to be sent.

Interfaces are normally known by names such as "le0", "sl1", "ppp2", and the like. On Berkeley-derived implementations, when an interface is made known to the system, the kernel assigns a unique positive integer value (called the interface index) to that interface. These are small positive integers that start at 1. (Note that 0 is never used for an interface index.) There may be gaps so that there is no current interface for a particular positive interface index.

This API defines two functions that map between an interface name and index, a third function that returns all the interface names and indexes, and a fourth function to return the dynamic memory allocated by the previous function. How these functions are implemented is left up to the implementation. 4.4BSD implementations can implement these functions using the existing sysctl() function with the NET_RT_IFLIST command. Other implementations may wish to use ioctl() for this purpose.

4.1 Name-to-Index

The first function maps an interface name into its corresponding index.

```
#include <net/if.h>
```

```
unsigned int if_nametoindex(const char *ifname);
```

If the specified interface name does not exist, the return value is 0, and errno is set to ENXIO. If there was a system error (such as running out of memory), the return value is 0 and errno is set to the proper value (e.g., ENOMEM).

4.2 Index-to-Name

The second function maps an interface index into its corresponding name.

```
#include <net/if.h>
```

```
char *if_indextoname(unsigned
int ifindex, char *ifname);
```

The ifname argument must point to a buffer of at least IF_NAMESIZE bytes into which the interface name corresponding to the specified index is returned. (IF_NAMESIZE is also defined in <net/if.h> and its value includes a terminating null byte at the end of the interface name.) This pointer is also the return value of the function. If there is no interface corresponding to the specified index, NULL is returned, and errno is set to ENXIO, if there was a system error (such as running out of memory), if_indextoname returns NULL and errno would be set to the proper value (e.g., ENOMEM).

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4.3 Return All Interface Names and Indexes

The if_nameindex structure holds the information about a single interface and is defined as a result of including the <net/if.h> header.

```
struct if_nameindex {
    unsigned int  if_index; /* 1, 2, ... */
    char         *if_name; /* null terminated name: "le0", ... */
};
```

The final function returns an array of if_nameindex structures, one structure per interface.

```
struct if_nameindex *if_nameindex(void);
```

The end of the array of structures is indicated by a structure with an if_index of 0 and an if_name of NULL. The function returns a NULL pointer upon an error, and would set errno to the appropriate value.

The memory used for this array of structures along with the interface names pointed to by the if_name members is obtained dynamically. This memory is freed by the next function.

4.4 Free Memory

The following function frees the dynamic memory that was allocated by `if_nameindex()`.

```
#include <net/if.h>

void if_freenameindex(struct if_nameindex *ptr);
```

The argument to this function must be a pointer that was returned by `if_nameindex()`.

Currently `net/if.h` doesn't have prototype definitions for functions and it is recommended that these definitions be defined in `net/if.h` as well and the struct `if_nameindex{}`.

5. Socket Options

A number of new socket options are defined for IPv6. All of these new options are at the `IPPROTO_IPV6` level. That is, the "level" parameter in the `getsockopt()` and `setsockopt()` calls is `IPPROTO_IPV6` when using these options. The constant name prefix `IPV6_` is used in all of the new socket options. This serves to clearly identify these options as applying to IPv6.

The declaration for `IPPROTO_IPV6`, the new IPv6 socket options, and related constants defined in this section are obtained by including the header `<netinet/in.h>`.

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5.1 Unicast Hop Limit

A new `setsockopt()` option controls the hop limit used in outgoing unicast IPv6 packets. The name of this option is `IPV6_UNICAST_HOPS`, and

it is used at the IPPROTO_IPV6 layer. The following example illustrates how it is used:

```
int hoplimit = 10;

if (setsockopt(s, IPPROTO_IPV6, IPV6_UNICAST_HOPS,
              (char *) &hoplimit, sizeof(hoplimit)) == -1)
    perror("setsockopt IPV6_UNICAST_HOPS");
```

When the IPV6_UNICAST_HOPS option is set with setsockopt(), the option value given is used as the hop limit for all subsequent unicast packets sent via that socket. If the option is not set, the system selects a default value. The integer hop limit value (called x) is interpreted as follows:

```
x < -1:    return an error of EINVAL
x == -1:    use kernel default
0 <= x <= 255: use x
x >= 256:   return an error of EINVAL
```

The IPV6_UNICAST_HOPS option may be used with getsockopt() to determine the hop limit value that the system will use for subsequent unicast packets sent via that socket. For example:

```
int hoplimit;
size_t len = sizeof(hoplimit);

if (getsockopt(s, IPPROTO_IPV6, IPV6_UNICAST_HOPS,
              (char *) &hoplimit, &len) == -1)
    perror("getsockopt IPV6_UNICAST_HOPS");
else
    printf("Using %d for hop limit.\n", hoplimit);
```

5.2 Sending and Receiving Multicast Packets

IPv6 applications may send UDP multicast packets by simply specifying an IPv6 multicast address in the address argument of the sendto() function.

Three socket options at the IPPROTO_IPV6 layer control some of the parameters for sending multicast packets. Setting these options is not required: applications may send multicast packets without using these options. The setsockopt() options for controlling the sending of multicast packets are summarized below. These three options can also be used with getsockopt().

IPV6_MULTICAST_IF

Set the interface to use for outgoing multicast packets.
The argument is the index of the interface to use.

Argument type: unsigned int

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IPV6_MULTICAST_HOPS

Set the hop limit to use for outgoing multicast packets.
(Note a separate option - IPV6_UNICAST_HOPS - is provided to set the hop limit to use for outgoing unicast packets.)

The interpretation of the argument is the same as for the IPV6_UNICAST_HOPS option:

x < -1: return an error of EINVAL
x == -1: use kernel default
0 <= x <= 255: use x
x >= 256: return an error of EINVAL

If IPV6_MULTICAST_HOPS is not set, the default is 1 (same as IPv4 today)

Argument type: int

IPV6_MULTICAST_LOOP

If a multicast datagram is sent to a group to which the sending host itself belongs (on the outgoing interface), a copy of the datagram is looped back by the IP layer for local delivery if this option is set to 1. If this option is set to 0 a copy is not looped back. Other option values

return an error of EINVAL.

If IPV6_MULTICAST_LOOP is not set, the default is 1 (loopback; same as IPv4 today).

Argument type: unsigned int

The reception of multicast packets is controlled by the two `setsockopt()` options summarized below. An error of `EOPNOTSUPP` is returned if these two options are used with `getsockopt()`.

IPV6_JOIN_GROUP

Join a multicast group on a specified local interface.

If the interface index is specified as 0,
the kernel chooses the local interface.

For example, some kernels look up the multicast group
in the normal IPv6 routing table and using the resulting interface.

Argument type: struct `ipv6_mreq`

IPV6_LEAVE_GROUP

Leave a multicast group on a specified interface.

Argument type: struct `ipv6_mreq`

The argument type of both of these options is the `ipv6_mreq` structure,
defined as a result of including the `<netinet/in.h>` header;

```
struct ipv6_mreq {
    struct in6_addr ipv6mr_multiaddr;
    /* IPv6 multicast addr */
```

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```
    unsigned int ipv6mr_interface; /* interface index */
};
```

Note that to receive multicast datagrams a process must join the
multicast group and bind the UDP port to which datagrams will be sent.
Some processes also bind the multicast group address to the socket, in
addition to the port, to prevent other datagrams destined to that same
port from being delivered to the socket.

6. Library Functions

New library functions are needed to perform a variety of operations with IPv6 addresses. Functions are needed to lookup IPv6 addresses in the Domain Name System (DNS). Both forward lookup (nodename-to-address translation) and reverse lookup (address-to-nodename translation) need to be supported. Functions are also needed to convert IPv6 addresses between their binary and textual form.

We note that

the two existing functions, `gethostbyname()` and `gethostbyaddr()`, are left as-is. New functions are defined to handle both IPv4 and IPv6 addresses.

6.1 Nodename-to-Address Translation

The commonly used function `gethostbyname()` is inadequate for many applications, first because it provides no way for the caller to specify anything about the types of addresses desired (IPv4 only, IPv6 only, IPv4-mapped IPv6 are OK, etc.), and second because many implementations of this function are not thread safe. RFC 2133 defined a function named `gethostbyname2()` but this function was also inadequate, first because its use required setting a global option (`RES_USE_INET6`) when IPv6 addresses were required, and second because a flag argument is needed to provide the caller with additional control over the types of addresses required.

The following function is new and must be thread safe:

```
#include <sys/socket.h>
#include <netdb.h>

struct hostent *getipnodebyname(const char *name, int
af, int flags
                               int *error_num);
```

The `name` argument can be either a node name or a numeric address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). The `af` argument specifies the address family, either `AF_INET` or `AF_INET6`. The `error_num` value is returned to the caller, via a pointer, with the appropriate error code in `error_num`, to support thread safe error code returns. `error_num` will be set to one of the following values:

`HOST_NOT_FOUND`

No such host is known.

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NO_ADDRESS

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.

NO_RECOVERY

An unexpected server failure occurred which cannot be recovered.

TRY_AGAIN

A temporary and possibly transient error occurred, such as a failure of a server to respond.

The flags argument specifies the types of addresses that are searched for, and the types of addresses that are returned. We note that a special flags value of AI_DEFAULT (defined below) should handle most applications.

That is, porting simple applications to use IPv6 replaces the call

```
hptr = gethostbyname(name);
```

with

```
hptr = getipnodebyname(name, AF_INET6, AI_DEFAULT, &error_num);
```

and changes any subsequent error diagnosis code to use error_num instead of externally declared variables, such as h_errno.

Applications desiring finer control over the types of addresses searched for and returned, can specify other combinations of the flags argument.

A flags of 0 implies a strict interpretation of the af argument:

- If flags is 0 and af is AF_INET, then the caller wants only IPv4

addresses. A query is made for A records. If successful, the IPv4 addresses are returned and the h_length member of the hostent structure will be 4, else the function returns a NULL pointer.

- If flags is 0 and if af is AF_INET6, then the caller wants only IPv6 addresses. A query is made for AAAA records. If successful, the IPv6 addresses are returned and the h_length member of the hostent structure will be 16, else the function returns a NULL pointer.

Other constants can be logically-ORed into the flags argument, to modify the behavior of the function.

- If the AI_V4MAPPED flag is specified along with an af of AF_INET6, then the caller will accept IPv4-mapped IPv6 addresses. That is, if no AAAA records are found then a query is made for A records and any found are returned as IPv4-mapped IPv6 addresses (h_length will be 16). The AI_V4MAPPED flag is ignored unless af equals AF_INET6.

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- The AI_ALL flag is used in conjunction with the AI_V4MAPPED flag, and is only used with the IPv6 address family. When AI_ALL is logically or'd with AI_V4MAPPED flag then the caller wants all addresses: IPv6 and IPv4-mapped IPv6. A query is first made for AAAA records and if successful, the IPv6 addresses are returned. Another query is then made for A records and any found are returned as IPv4-mapped IPv6 addresses. h_length will be 16. Only if both queries fail does the function return a NULL pointer. This flag is ignored unless af equals AF_INET6.
- The AI_ADDRCONFIG flag specifies that a query for AAAA records should occur only if the node has at least one IPv6 source address configured and a query for A records should occur only if the node has at least one IPv4 source address configured.

For example, if the node has no IPv6 source addresses configured, and af equals

AF_INET6, and the node name being looked up has both AAAA and A records, then:

- (a) if only AI_ADDRCONFIG is specified, the function returns a NULL pointer;
- (b) if AI_ADDRCONFIG | AI_V4MAPPED is specified, the A records are returned as IPv4-mapped IPv6 addresses;

The special flags value of AI_DEFAULT is defined as

```
#define AI_DEFAULT (AI_V4MAPPED | AI_ADDRCONFIG)
```

We noted that the getipnodebyname() function must allow the name argument to be either a node name or a literal address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). This saves applications from having to call inet_pton() to handle literal address strings.

There are four scenarios based on the type of literal address string and the value of the af argument.

The two simple cases are:

When name is a dotted-decimal IPv4 address and af equals AF_INET, or when name is an IPv6 hex address and af equals AF_INET6. The members of the returned hostent

structure are: h_name points to a copy of the name argument, h_aliases is a NULL pointer, h_addrtype is a copy of the af argument, h_length is either 4 (for AF_INET) or 16 (for AF_INET6), h_addr_list[0] is a pointer to the 4-byte or 16-byte binary address, and h_addr_list[1] is a NULL pointer.

When name is a dotted-decimal IPv4 address and af equals AF_INET6, and flags equals AI_V4MAPPED, an IPv4-mapped IPv6 address is returned:

h_name points to an IPv6 hex address containing the IPv4-mapped IPv6 address, h_aliases is a NULL pointer, h_addrtype is AF_INET6, h_length is 16, h_addr_list[0] is a pointer to the 16-byte binary address, and h_addr_list[1] is a NULL pointer. If AI_V4MAPPED is set (with or without AI_ALL) return IPv4-mapped otherwise return NULL.

It is an error when name is an IPv6 hex address and af equals AF_INET.

The function's return value is a NULL pointer and error_num equals HOST_NOT_FOUND.

6.2 Address-To-Nodename Translation

The following function has the same arguments as the existing `gethostbyaddr()` function, but adds an error number.

```
#include <sys/socket.h>
#include <netdb.h>

struct hostent *getipnodebyaddr(const void *src, size_t len, int af,
                                int *error_num);
```

As with `getipnodebyname()`, `getipnodebyaddr()` must be thread safe. The `error_num` value is returned to the caller with the appropriate error code, to support thread safe error code returns. The following error conditions may be returned for `error_num`:

HOST_NOT_FOUND

No such host is known.

NO_ADDRESS

The server recognized 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.

NO_RECOVERY

An unexpected server failure occurred which cannot be recovered.

TRY_AGAIN

A temporary and possibly transient error occurred, such as a failure of a server to respond.

One possible source of confusion is the handling of IPv4-mapped IPv6 addresses and IPv4-compatible IPv6 addresses, but the following logic should apply.

1. If `af` is `AF_INET6`, and if `len` equals 16, and if the IPv6 address is an IPv4-mapped IPv6 address or an IPv4-compatible IPv6 address, then skip over the first 12 bytes of the IPv6 address, set `af` to `AF_INET`, and set `len` to 4.

2. If af is AF_INET, lookup the name for the given IPv4 address (e.g., query for a PTR record in the in-addr.arpa domain).
3. If af is AF_INET6, lookup the name for the given IPv6 address (e.g., query for a PTR record in the ip6.int domain).
4. If the function is returning success, then the single address that is returned in the hostent structure is a copy of the first argument to the function with the same address family that was passed as an argument to this function.

All four steps listed are performed, in order. Also note that the IPv6 hex addresses "::" and "::1" MUST NOT be treated as IPv4-compatible

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addresses, and if the address is "::", HOST_NOT_FOUND MUST be returned and a query of the address not performed.

Also for the macro in section 6.7 IN6_IS_ADDR_V4COMPAT MUST return false for "::" and "::1".

6.3 Freeing memory for getipnodebyname and getipnodebyaddr

The hostent structure does not change from its existing definition. This structure, and the information pointed to by this structure, are dynamically allocated by getipnodebyname and getipnodebyaddr. The following function frees this memory:

```
#include <netdb.h>

void freehostent(struct hostent *ptr);
```

6.4 Protocol-Independent Nodename and Service Name Translation

Nodename-to-address translation

is done in a protocol-independent fashion using the `getaddrinfo()` function that is taken from the Institute of Electrical and Electronic Engineers (IEEE) POSIX 1003.1g (Protocol Independent Interfaces) draft specification [3].

The official specification for this function will be the final POSIX standard, with the following additional requirements:

- `getaddrinfo()` (along with the `getnameinfo()` function described in the next section) must be thread safe.
- The `AI_NUMERICHOST` is new with this document.
- All fields in socket address structures returned by `getaddrinfo()` that are not filled in through an explicit argument (e.g., `sin6_flowinfo` and `sin_zero`) must be set to 0. (This makes it easier to compare socket address structures.)
- `getaddrinfo()` must fill in the length field of a socket address structure (e.g., `sin6_len`) on systems that support this field.

We are providing this independent description of the function because POSIX standards are not freely available (as are IETF documents).

```
#include <sys/socket.h>
#include <netdb.h>
```

```
int getaddrinfo(const char *nodename, const char *servname,
               const struct addrinfo *hints,
               struct addrinfo **res);
```

The `addrinfo` structure is defined as a result of including the `<netdb.h>` header.

```
struct addrinfo {
```

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```
int ai_flags; /* AI_PASSIVE, AI_CANONNAME, AI_NUMERICHOST */
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 nodename */
struct sockaddr *ai_addr; /* binary address */
struct addrinfo *ai_next; /* next structure in linked list */
};

```

The return

value from the function is 0 upon success or a nonzero error code. The following names are the nonzero error codes from `getaddrinfo()`, and are defined in `<netdb.h>`:

```

EAI_ADDRFAMILY  address family for nodename not supported
EAI_AGAIN       temporary failure in name resolution
EAI_BADFLAGS    invalid value for ai_flags
EAI_FAIL        non-recoverable failure in name resolution
EAI_FAMILY      ai_family not supported
EAI_MEMORY      memory allocation failure
EAI_NODATA      no address associated with nodename
EAI_NONAME      nodename nor servname provided, or not known
EAI_SERVICE     servname not supported for ai_socktype
EAI_SOCKTYPE    ai_socktype not supported
EAI_SYSTEM      system error returned in errno

```

The `nodename` and `servname` arguments are pointers to null-terminated strings or `NULL`. One or both of these two arguments must be a non-`NULL` pointer. In the normal client scenario, both the `nodename` and `servname` are specified. In the normal server scenario, only the `servname` is specified. A non-`NULL` `nodename` string can be either a node name or a numeric host address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). A non-`NULL` `servname` string can be either a service name or a decimal port number.

The caller can optionally pass an `addrinfo` structure, pointed to by the third argument, to provide hints concerning the type of socket that the caller supports. In this hints structure all members other than `ai_flags`, `ai_family`, `ai_socktype`, and `ai_protocol` must be zero or a `NULL` pointer. A value of `PF_UNSPEC` for `ai_family` means the caller will accept any protocol family. A value of 0 for `ai_socktype` means the caller will accept any socket type. A value of 0 for `ai_protocol` means the caller will accept any protocol. For example, if the caller handles only TCP and not UDP, then the `ai_socktype` member of the hints structure should be set to `SOCK_STREAM` when `getaddrinfo()` is called. If the caller handles only IPv4 and not IPv6, then the `ai_family` member of the hints structure should be set to `PF_INET` when `getaddrinfo()` is called. If the third argument to `getaddrinfo()` is a `NULL` pointer, this is the same as if the caller had filled in an `addrinfo` structure initialized to

zero with `ai_family` set to `PF_UNSPEC`.

Upon successful return a pointer to a linked list of one or more `addrinfo` structures is returned through the final argument. The caller can process each `addrinfo` structure in this list by following the `ai_next` pointer, until a `NULL` pointer is encountered. In each returned `addrinfo` structure the three members `ai_family`, `ai_socktype`, and `ai_protocol` are the corresponding arguments for a call to the `socket()` function. In each `addrinfo` structure the `ai_addr` member points to a

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filled-in socket address structure whose length is specified by the `ai_addrlen` member.

If the `AI_PASSIVE` bit is set in the `ai_flags` member of the hints structure, then the caller plans to use the returned socket address structure in a call to `bind()`. In this case, if the `nodename` 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.

If the `AI_PASSIVE` bit is not set in the `ai_flags` member of the hints structure, then the returned socket address structure will be ready for a call to `connect()` (for a connection-oriented protocol) or either `connect()`, `sendto()`, or `sendmsg()` (for a connectionless protocol). In this case, if the `nodename` argument is a `NULL` pointer, then the IP address portion of the socket address structure will be set to the loopback address.

If the `AI_CANONNAME` bit is set in the `ai_flags` member of the hints structure, then upon successful return the `ai_canonname` member of the first `addrinfo` structure in the linked list will point to a null-terminated string containing the canonical name of the specified `nodename`.

If the `AI_NUMERICHOST` bit is set in the `ai_flags` member of the hints structure, then a non-`NULL` `nodename` string must be a numeric host address string. Otherwise an error of `EAI_NONAME` is returned. This flag prevents any type of name resolution service (e.g., the DNS) from being called.

All of the information returned by `getaddrinfo()` is dynamically allocated: the `addrinfo` structures, and the socket address structures and canonical node name strings pointed to by the `addrinfo` structures. To return this information to the system the function `freeaddrinfo()` is called:

```
#include <sys/socket.h>
#include <netdb.h>

void freeaddrinfo(struct addrinfo *ai);
```

The `addrinfo` structure pointed to by the `ai` argument is freed, along with any dynamic storage pointed to by the structure. This operation is repeated until a `NULL ai_next` pointer is encountered.

To aid applications in printing error messages based on the `EAI_XXX` codes returned by `getaddrinfo()`, the following function is defined.

```
#include <sys/socket.h>
#include <netdb.h>

char *gai_strerror(int ecode);
```

The argument is one of the `EAI_XXX` values defined earlier and the return value points to a string describing the error. If the argument is not one of the `EAI_XXX` values, the function still returns a pointer to a string whose contents indicate an unknown error.

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6.5 Socket Address Structure to Nodename and Service Name

The POSIX 1003.1g specification includes no function to perform the reverse conversion from `getaddrinfo()`: to look up a nodename and service name, given the binary address and port. Therefore, we define the following function:

```
#include <sys/socket.h>
#include <netdb.h>
```

```
int getnameinfo(const struct sockaddr *sa, socklen_t
salen,
    char *host, size_t hostlen,
    char *serv, size_t servlen,
    int flags);
```

This function looks up an IP address and port number provided by the caller in the DNS and system-specific database, and returns text strings for both in buffers provided by the caller. The function indicates successful completion by a zero return value; a non-zero return value indicates failure.

The first argument, sa, points to either a `sockaddr_in` structure (for IPv4) or a `sockaddr_in6` structure (for IPv6) that holds the IP address and port number. The `salen` argument gives the length of the `sockaddr_in` or `sockaddr_in6` structure.

The function returns the nodename associated with the IP address in the buffer pointed to by the `host` argument. The caller provides the size of this buffer via the `hostlen` argument. The service name associated with the port number is returned in the buffer pointed to by `serv`, and the `servlen` argument gives the length of this buffer. The caller specifies not to return either string by providing a zero value for the `hostlen` or `servlen` arguments. Otherwise, the caller must provide buffers large enough to hold the nodename and the service name, including the terminating null characters.

Unfortunately most systems do not provide constants that specify the maximum size of either a fully-qualified domain name or a service name. Therefore to aid the application in allocating buffers for these two returned strings the following constants are defined in `<netdb.h>`:

```
#define NI_MAXHOST 1025
#define NI_MAXSERV 32
```

The first value is actually defined as the constant `MAXDNAME` in recent versions of BIND's `<arpa/nameser.h>` header (older versions of BIND define this constant to be 256) and the second is a guess based on the services listed in the current Assigned Numbers RFC.

The final argument is a flag that changes the default actions of this function. By default the fully-qualified domain name (FQDN) for the host is looked up in the DNS and returned. If the flag bit `NI_NOFQDN` is set, only the nodename portion of the FQDN is returned for local hosts.

If the flag bit `NI_NUMERICHOST` is set, or if the host's name cannot be

located in the DNS, the numeric form of the host's address is returned instead of its name (e.g., by calling `inet_ntop()` instead of `getipnodebyaddr()`). If the flag bit `NI_NAMEREQD` is set, an error is

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returned if the host's name cannot be located in the DNS.

If the flag bit `NI_NUMERICSERV` is set, the numeric form of the service address is returned (e.g., its port number) instead of its name. The two `NI_NUMERICxxx` flags are required to support the "-n" flag that many commands provide.

A fifth flag bit, `NI_DGRAM`, specifies that the service is a datagram service, and causes `getservbyport()` to be called with a second argument of "udp" instead of its default of "tcp". This is required for the few ports (e.g. 512-514) that have different services for UDP and TCP.

These `NI_xxx` flags are defined in `<netdb.h>` along with the `AI_xxx` flags already defined for `getaddrinfo()`.

6.6 Address Conversion Functions

The two functions `inet_addr()` and `inet_ntoa()` convert an IPv4 address between binary and text form. IPv6 applications need similar functions. The following two functions convert both IPv6 and IPv4 addresses:

```
#include <sys/socket.h>
#include <arpa/inet.h>

int inet_pton(int af, const char *src, void *dst);

const char *inet_ntop(int af, const void *src,
                     char *dst, size_t size);
```

The `inet_pton()` function converts an address in its standard text presentation form into its numeric binary form. The `af` argument specifies the family of the address. Currently the `AF_INET` and `AF_INET6` address families are supported. The `src` argument points to the string being passed

in. The `dst` argument points to a buffer into which the function stores the numeric address. The address is returned in network byte order. `Inet_pton()` returns 1 if the conversion succeeds, 0 if the input is not a valid IPv4 dotted-decimal string or a valid IPv6 address string, or -1 with `errno` set to `EAFNOSUPPORT` if the `af` argument is unknown. The calling application must ensure that the buffer referred to by `dst` is large enough to hold the numeric address (e.g., 4 bytes for `AF_INET` or 16 bytes for `AF_INET6`).

If the `af` argument is `AF_INET`, the function accepts a string in the standard IPv4 dotted-decimal form:

```
ddd.ddd.ddd.ddd
```

where `ddd` is a one to three digit decimal number between 0 and 255. Note that many implementations of the existing `inet_addr()` and `inet_aton()` functions accept nonstandard input: octal numbers, hexadecimal numbers, and fewer than four numbers. `inet_pton()` does not accept these formats.

If the `af` argument is `AF_INET6`, then the function accepts a string in one of the standard IPv6 text forms defined in Section 2.2 of the addressing architecture specification [2].

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The `inet_ntop()` function converts a numeric address into a text string suitable for presentation. The `af` argument specifies the family of the address. This can be `AF_INET` or `AF_INET6`. The `src` argument points to a buffer holding an IPv4 address if the `af` argument is `AF_INET`, or an IPv6 address if the `af` argument is `AF_INET6`, the address must be in network byte order. The `dst` argument points to a buffer where the function will store the resulting text string. The `size` argument specifies the size of this buffer. The application must specify a non-NULL `dst` argument. For IPv6 addresses, the buffer must be at least 46-octets. For IPv4 addresses, the buffer must be at least 16-octets. In order to allow applications to easily declare buffers of the proper size to store IPv4 and IPv6 addresses in string form, the following two constants are defined in `<netinet/in.h>`:

```
#define INET_ADDRSTRLEN 16
```

```
#define INET6_ADDRSTRLEN 46
```

The `inet_ntop()` function returns a pointer to the buffer containing the text string if the conversion succeeds, and `NULL` otherwise. Upon failure, `errno` is set to `EAFNOSUPPORT` if the `af` argument is invalid or `ENOSPC` if the size of the result buffer is inadequate.

6.7 Address Testing Macros

The following macros can be used to test for special IPv6 addresses.

```
#include <netinet/in.h>
```

```
int IN6_IS_ADDR_UNSPECIFIED (const struct in6_addr *);
int IN6_IS_ADDR_LOOPBACK   (const struct in6_addr *);
int IN6_IS_ADDR_MULTICAST  (const struct in6_addr *);
int IN6_IS_ADDR_LINKLOCAL  (const struct in6_addr *);
int IN6_IS_ADDR_SITELOCAL  (const struct in6_addr *);
int IN6_IS_ADDR_V4MAPPED   (const struct in6_addr *);
int IN6_IS_ADDR_V4COMPAT   (const
struct in6_addr *);

int IN6_IS_ADDR_MC_NODELOCAL(const struct in6_addr *);
int IN6_IS_ADDR_MC_LINKLOCAL(const struct in6_addr *);
int IN6_IS_ADDR_MC_SITELOCAL(const struct in6_addr *);
int IN6_IS_ADDR_MC_ORGLOCAL (const struct in6_addr *);
int IN6_IS_ADDR_MC_GLOBAL   (const struct in6_addr *);
```

The first seven macros return true if the address is of the specified type, or false otherwise. The last five test the scope of a multicast address and return true if the address is a multicast address of the specified scope or false if the address is either not a multicast address or not of the specified scope. Note that `IN6_IS_ADDR_LINKLOCAL` and `IN6_IS_ADDR_SITELOCAL` return true only for the two local-use IPv6 unicast addresses. These two macros do not return true for IPv6 multicast addresses of either link-local scope or site-local scope.

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7. Summary of New Definitions

The following list summarizes the constants, structure, and extern definitions discussed in this memo, sorted by header.

```
<net/if.h> IF_NAMESIZE
<net/if.h> struct if_nameindex{ };

<netdb.h> AI_ADDRCONFIG
<netdb.h> AI_DEFAULT
<netdb.h> AI_ALL
<netdb.h> AI_CANONNAME
<netdb.h> AI_NUMERICHOST
<netdb.h> AI_PASSIVE
<netdb.h> AI_V4MAPPED
<netdb.h> EAI_ADDRFAMILY
<netdb.h> EAI_AGAIN
<netdb.h> EAI_BADFLAGS
<netdb.h> EAI_FAIL
<netdb.h> EAI_FAMILY
<netdb.h> EAI_MEMORY
<netdb.h> EAI_NODATA
<netdb.h> EAI_NONAME
<netdb.h> EAI_SERVICE
<netdb.h> EAI_SOCKTYPE
<netdb.h> EAI_SYSTEM
<netdb.h> NI_DGRAM
<netdb.h> NI_MAXHOST
<netdb.h> NI_MAXSERV
<netdb.h> NI_NAMEREQD
<netdb.h> NI_NOFQDN
<netdb.h> NI_NUMERICHOST
<netdb.h>
    NI_NUMERICSERV
<netdb.h> struct addrinfo{ };

<netinet/in.h> IN6ADDR_ANY_INIT
<netinet/in.h> IN6ADDR_LOOPBACK_INIT
<netinet/in.h> INET6_ADDRSTRLEN
<netinet/in.h> INET_ADDRSTRLEN
<netinet/in.h> IPPROTO_IPV6
<netinet/in.h> IPV6_JOIN_GROUP
<netinet/in.h> IPV6_LEAVE_GROUP
```

```

<netinet/in.h> IPV6_MULTICAST_HOPS
<netinet/in.h> IPV6_MULTICAST_IF
<netinet/in.h> IPV6_MULTICAST_LOOP
<netinet/in.h> IPV6_UNICAST_HOPS
<netinet/in.h> SIN6_LEN
<netinet/in.h> extern const struct in6_addr in6addr_any;
<netinet/in.h> extern const struct in6_addr in6addr_loopback;
<netinet/in.h> struct in6_addr{ };
<netinet/in.h> struct ipv6_mreq{ };
<netinet/in.h> struct sockaddr_in6{ };

<sys/socket.h> AF_INET6
<sys/socket.h> PF_INET6
<sys/socket.h> struct sockaddr_storage;

```

The following list summarizes the function and macro prototypes

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discussed in this memo, sorted by header.

```

<arpa/inet.h> int inet_pton(int, const char *, void *);
<arpa/inet.h> const char *inet_ntop(int, const void *,
    char *, size_t);

<net/if.h> char *if_indextoname(unsigned int, char *);
<net/if.h> unsigned int if_nameindex(const char *);
<net/if.h> void if_freenameindex(struct if_nameindex *);
<net/if.h> struct if_nameindex *if_nameindex(void);

<netdb.h> int getaddrinfo(const char *, const char *,
    const struct addrinfo *,
    struct addrinfo **);
<netdb.h> int getnameinfo(const struct sockaddr *, socklen_t,
    char *, size_t, char *, size_t, int);
<netdb.h> void freeaddrinfo(struct addrinfo *);
<netdb.h> char *gai_strerror(int);
<netdb.h> struct hostent *getipnodebyname(const
char *, int, int,
    int *);
<netdb.h> struct hostent *getipnodebyaddr(const void *, size_t, int,
    int *);

```

```
<netdb.h> void freehostent(struct hostent *);

<netinet/in.h> int IN6_IS_ADDR_LINKLOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_LOOPBACK(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_GLOBAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_LINKLOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_NODELOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_ORGLOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MC_SITELOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_MULTICAST(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_SITELOCAL(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_UNSPECIFIED(const struct in6_addr *);
<netinet/in.h>
int IN6_IS_ADDR_V4COMPAT(const struct in6_addr *);
<netinet/in.h> int IN6_IS_ADDR_V4MAPPED(const struct in6_addr *);
```

8. Security Considerations

IPv6 provides a number of new security mechanisms, many of which need to be accessible to applications. Companion memos detailing the extensions to the socket interfaces to support IPv6 security are being written.

9. Year 2000 Considerations

There are no issues for this draft concerning the Year 2000 issue regarding the use of dates.

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Changes From RFC 2133

Changes made in the March 1998 Edition (-01 draft):

Changed all "hostname" to "nodename" for consistency with other IPv6 documents.

Section 3.3: changed comment for `sin6_flowinfo` to be "traffic class & flow info" and updated corresponding text description to current definition of these two fields.

Section 3.10 ("Portability Additions") is new.

Section 6: a new paragraph was added reiterating that the existing `gethostbyname()` and `gethostbyaddr()` are not changed.

Section 6.1: change `gethostbyname3()` to `getnodebyname()`. Add `AI_DEFAULT` to handle majority of applications. Renamed `AI_V6ADDRCONFIG` to `AI_ADDRCONFIG` and define it for A records and IPv4 addresses too. Defined exactly what `getnodebyname()` must return if the name argument is a numeric address string.

Section 6.2: change `gethostbyaddr()` to `getnodebyaddr()`. Reword items 2 and 3 in the description of how to handle IPv4-mapped and IPv4-compatible addresses to "lookup a name" for a given address, instead of specifying what type of DNS query to issue.

Section 6.3: added two more requirements to `getaddrinfo()`.

Section 7: added the following constants to the list for `<netdb.h>`: `AI_ADDRCONFIG`, `AI_ALL`, and `AI_V4MAPPED`. Add union `sockaddr_union` and `SA_LEN` to the lists for `<sys/socket.h>`.

Updated references.

Changes made in the November 1997 Edition (-00 draft):

The data types have been changed to conform with Draft 6.6 of the Posix 1003.1g standard.

Section 3.2: data type of `s6_addr` changed to "uint8_t".

Section 3.3: data type of `sin6_family` changed to "sa_family_t". data type of `sin6_port` changed to "in_port_t", data type of `sin6_flowinfo` changed to "uint32_t".

Section 3.4: same as Section 3.3, plus data type of `sin6_len` changed to "uint8_t".

Section 6.2: first argument of `gethostbyaddr()` changed from "const

char *" to "const void *" and second argument changed from "int" to "size_t".

Section 6.4: second argument of getnameinfo() changed from "size_t" to "socklen_t".

The wording was changed when new structures were defined, to be more explicit as to which header must be included to define the structure:

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Section 3.2 (in6_addr{}), Section 3.3 (sockaddr_in6{}), Section 3.4 (sockaddr_in6{}), Section 4.3 (if_nameindex{}), Section 5.3 (ipv6_mreq{}), and Section 6.3 (addrinfo{}).

Section 4: NET_RT_LIST changed to NET_RT_IFLIST.

Section 5.1: The IPV6_ADDRFORM socket option was removed.

Section 5.3: Added a note that an option value other than 0 or 1 for IPV6_MULTICAST_LOOP returns an error. Added a note that IPV6_MULTICAST_IF, IPV6_MULTICAST_HOPS, and IPV6_MULTICAST_LOOP can also be used with getsockopt(), but IPV6_ADD_MEMBERSHIP and IPV6_DROP_MEMBERSHIP cannot be used with getsockopt().

Section 6.1: Removed the description of gethostbyname2() and its associated RES_USE_INET6 option, replacing it with gethostbyname3().

Section 6.2: Added requirement that gethostbyaddr() be thread safe. Reworded step 4 to avoid using the RES_USE_INET6 option.

Section 6.3: Added the requirement that getaddrinfo() and getnameinfo() be thread safe. Added the AI_NUMERICHOST flag.

Section 6.6: Added clarification about IN6_IS_ADDR_LINKLOCAL and IN6_IS_ADDR_SITELOCAL macros.

Changes made to the draft -01 specification Sept 98

Changed priority to traffic class in the spec.

Added the need for scope identification in section 2.1.

Added `sin6_scope_id` to struct `sockaddr_in6` in sections 3.3 and 3.4.

Changed 3.10 to use generic storage structure to support holding IPv6 addresses and removed the `SA_LEN` macro.

Distinguished between invalid input parameters and system failures for Interface Identification in Section 4.1 and 4.2.

Added defaults for multicast operations in section 5.2 and changed the names from `ADD` to `JOIN` and `DROP` to `LEAVE` to be consistent with IPv6 multicast terminology.

Changed `getnodebyname` to `getipnodebyname`, `getnodebyaddr` to `getipnodebyaddr`, and added MT safe error code to function parameters in section 6.

Moved `freehostent` to its own sub-section after `getipnodebyaddr` now 6.3 (so this bumps all remaining sections in section 6).

Clarified the use of `AI_ALL` and `AI_V4MAPPED` that these are dependent on the `AF` parameter and must be used as a conjunction in section 6.1.

Removed the restriction that literal addresses cannot be used with a `flags` argument in section 6.1.

Added Year 2000 Section to the draft

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Deleted Reference to the following because the attached is deleted from the ID directory and has expired. But the logic from the aforementioned draft still applies, so that was kept in Section 6.2 bullets after 3rd paragraph.

[7] P. Vixie, "Reverse Name Lookups of Encapsulated IPv4 Addresses in IPv6", Internet-Draft, <draft-vixie-ipng-ipv4ptr-00.txt>, May 1996.

Deleted the following reference as it is no longer referenced.

And the draft has expired.

[3] D. McDonald, "A Simple IP Security API Extension to BSD Sockets",
Internet-Draft, <draft-mcdonald-simple-ipsec-api-01.txt>,
March 1997.

Deleted the following reference as it is no longer referenced.

[4] C. Metz, "Network Security API for Sockets",
Internet-Draft, <draft-metz-net-security-api-01.txt>,
January 1998.

Update current references to current status.

Added alignment notes for `in6_addr` and `sin6_addr`.

Clarified further that `AI_V4MAPPED` must be used with a dotted IPv4
literal address for `getipnodebyname()`, when address family is
`AF_INET6`.

Added text to clarify `:::` and `::1` when used by `getipnodebyaddr()`.

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The `getaddrinfo()` and `getnameinfo()` functions are taken from an earlier
Internet Draft by Keith Sklower. As noted in that draft, William Durst,
Steven Wise, Michael Karels, and Eric Allman provided many useful
discussions on the subject of protocol-independent name-to-address
translation, and reviewed early versions of Keith Sklower's original
proposal. Eric Allman implemented the first prototype of `getaddrinfo()`.
The observation that specifying the pair of name and service would
suffice for connecting to a service independent of protocol details was
made by Marshall Rose in a proposal
to X/Open for a "Uniform Network
Interface".

Craig Metz, Jack McCann, Erik Nordmark, Tim Hartrick, and Mukesh Kacker made many contributions to this document. Ramesh Govindan made a number

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of contributions and co-authored an earlier version of this memo.

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- [4] W. Stevens, M. Thomas, "Advanced Sockets API for IPv6", RFC 2292, February 1998.

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 ./bin/tests/optional/adb_test.c C 1999,2000,2001,2004,2005,2007,2009,2011,2012,2013,2015,2016,2018,2019
 ./bin/tests/optional/backtrace_test.c C 2009,2013,2015,2016,2018,2019
 ./bin/tests/optional/byaddr_test.c C 2000,2001,2002,2004,2005,2007,2012,2015,2016,2018,2019
 ./bin/tests/optional/byname_test.c C 2000,2001,2004,2005,2007,2009,2012,2015,2016,2017,2018,2019
 ./bin/tests/optional/db_test.c C
 1999,2000,2001,2004,2005,2007,2008,2009,2011,2012,2013,2015,2016,2017,2018,2019
 ./bin/tests/optional/dst_test.c C 2018,2019
 ./bin/tests/optional/entropy2_test.c C 2000,2001,2004,2005,2007,2015,2016,2018,2019
 ./bin/tests/optional/entropy_test.c C 2000,2001,2004,2005,2007,2015,2016,2018,2019
 ./bin/tests/optional/fsaccess_test.c C 2000,2001,2004,2005,2007,2012,2015,2016,2018,2019
 ./bin/tests/optional/gsstest.c C 2018,2019
 ./bin/tests/optional/gxba_test.c C 2018,2019
 ./bin/tests/optional/gxnb_test.c C 2018,2019
 ./bin/tests/optional/hash_test.c C 2000,2001,2004,2005,2006,2007,2014,2015,2016,2017,2018,2019
 ./bin/tests/optional/inter_test.c C 2000,2001,2003,2004,2005,2007,2008,2015,2016,2018,2019
 ./bin/tests/optional/keyboard_test.c C 2000,2001,2004,2005,2007,2015,2016,2018,2019

./bin/tests/optional/lex_test.c C 1998,1999,2000,2001,2004,2005,2007,2015,2016,2018,2019
 ./bin/tests/optional/lfsr_test.c C 1999,2000,2001,2004,2005,2007,2015,2016,2018,2019
 ./bin/tests/optional/log_test.c C 1999,2000,2001,2004,2007,2011,2014,2015,2016,2018,2019
 ./bin/tests/optional/lwres_test.c C 2018,2019
 ./bin/tests/optional/lwresconf_test.c C 2018,2019
 ./bin/tests/optional/master_test.c C 1999,2000,2001,2004,2007,2009,2015,2016,2017,2018,2019
 ./bin/tests/optional/mempool_test.c C 1999,2000,2001,2004,2007,2016,2018,2019
 ./bin/tests/optional/name_test.c C 1998,1999,2000,2001,2003,2004,2005,2007,2009,2015,2016,2017,2018,2019
 ./bin/tests/optional/nsecify.c C 1999,2000,2001,2003,2004,2007,2008,2009,2011,2015,2016,2017,2018,2019
 ./bin/tests/optional/ratelimiter_test.c C 1999,2000,2001,2004,2007,2015,2016,2018,2019
 ./bin/tests/optional/rbt_test.c C 1999,2000,2001,2004,2005,2007,2009,2011,2012,2014,2015,2016,2018,2019
 ./bin/tests/optional/rbt_test.out X 1999,2000,2001,2018,2019
 ./bin/tests/optional/rbt_test.txt SH 1999,2000,2001,2004,2007,2012,2016,2018,2019
 ./bin/tests/optional/rwlock_test.c C 1998,1999,2000,2001,2004,2005,2007,2013,2016,2017,2018,2019
 ./bin/tests/optional/serial_test.c C 1999,2000,2001,2003,2004,2007,2015,2016,2018,2019
 ./bin/tests/optional/shutdown_test.c C 1998,1999,2000,2001,2004,2007,2011,2013,2016,2017,2018,2019
 ./bin/tests/optional/sig0_test.c C 2000,2001,2004,2005,2007,2008,2009,2012,2015,2016,2018,2019
 ./bin/tests/optional/sock_test.c C 1998,1999,2000,2001,2004,2007,2008,2012,2013,2014,2015,2016,2017,2018,2019
 ./bin/tests/optional/sym_test.c C 1998,1999,2000,2001,2004,2005,2007,2015,2016,2018,2019
 ./bin/tests/optional/task_test.c C 1998,1999,2000,2001,2004,2007,2013,2014,2015,2016,2018,2019
 ./bin/tests/optional/timer_test.c C 1998,1999,2000,2001,2004,2007,2013,2014,2015,2016,2018,2019
 ./bin/tests/optional/zone_test.c C 1999,2000,2001,2002,2004,2005,2007,2009,2012,2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/Makefile.in MAKE 2014,2016,2018,2019
 ./bin/tests/pkcs11/README X 2014,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/Makefile.in MAKE 2014,2016,2017,2018,2019
 ./bin/tests/pkcs11/benchmarks/create.c C 2014,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/find.c C 2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/genrsa.c C 2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/login.c C 2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/privrsa.c C 2014,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/pubrsa.c C 2014,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/random.c C 2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/session.c C 2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/sha1.c C 2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/sign.c C 2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/benchmarks/verify.c C 2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/pkcs11-hmacmd5.c C 2014,2015,2016,2018,2019
 ./bin/tests/pkcs11/pkcs11-md5sum.c C 2014,2015,2016,2018,2019
 ./bin/tests/startperf/README X 2011,2018,2019
 ./bin/tests/startperf/clean.sh SH 2011,2012,2016,2018,2019
 ./bin/tests/startperf/makenames.pl PERL 2011,2012,2016,2018,2019
 ./bin/tests/startperf/mkzonefile.pl PERL 2011,2012,2016,2018,2019
 ./bin/tests/startperf/setup.sh SH 2011,2012,2016,2018,2019
 ./bin/tests/startperf/smallzone.db ZONE 2011,2016,2018,2019
 ./bin/tests/system/Makefile.in MAKE 2000,2001,2004,2007,2008,2010,2011,2012,2013,2014,2015,2016,2018,2019
 ./bin/tests/system/README TXT.BRIEF 2000,2001,2004,2010,2011,2013,2015,2016,2018,2019
 ./bin/tests/system/acl/clean.sh SH 2008,2012,2014,2015,2016,2017,2018,2019
 ./bin/tests/system/acl/ns2/named1.conf.in CONF-C 2018,2019

./bin/tests/system/acl/ns2/named2.conf.in CONF-C 2018,2019
./bin/tests/system/acl/ns2/named3.conf.in CONF-C 2018,2019
./bin/tests/system/acl/ns2/named4.conf.in CONF-C 2018,2019
./bin/tests/system/acl/ns2/named5.conf.in CONF-C 2018,2019
./bin/tests/system/acl/ns2/named6.conf.in CONF-C 2018,2019
./bin/tests/system/acl/ns2/named7.conf.in CONF-C 2018,2019
./bin/tests/system/acl/ns3/example.db ZONE 2017,2018,2019
./bin/tests/system/acl/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/acl/ns4/example.db ZONE 2017,2018,2019
./bin/tests/system/acl/ns4/existing.db ZONE 2017,2018,2019
./bin/tests/system/acl/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/acl/setup.sh SH 2008,2012,2014,2016,2018,2019
./bin/tests/system/acl/tests.sh SH 2008,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/additional/clean.sh SH 2013,2014,2016,2017,2018,2019
./bin/tests/system/additional/ns1/mx.db ZONE 2016,2018,2019
./bin/tests/system/additional/ns1/named.args X 2013,2014,2018,2019
./bin/tests/system/additional/ns1/named1.conf.in CONF-C 2018,2019
./bin/tests/system/additional/ns1/named2.conf.in CONF-C 2018,2019
./bin/tests/system/additional/ns1/named3.conf.in CONF-C 2018,2019
./bin/tests/system/additional/ns1/named4.conf.in CONF-C 2018,2019
./bin/tests/system/additional/ns1/naptr.db ZONE 2013,2016,2018,2019
./bin/tests/system/additional/ns1/naptr2.db ZONE 2013,2016,2018,2019
./bin/tests/system/additional/ns1/nid.db ZONE 2013,2016,2018,2019
./bin/tests/system/additional/ns1/rt.db ZONE 2013,2016,2018,2019
./bin/tests/system/additional/ns1/rt2.db ZONE 2013,2016,2018,2019
./bin/tests/system/additional/ns1/srv.db ZONE 2016,2018,2019
./bin/tests/system/additional/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/additional/ns3/root.hint ZONE 2017,2018,2019
./bin/tests/system/additional/setup.sh SH 2013,2016,2018,2019
./bin/tests/system/additional/tests.sh SH 2013,2016,2017,2018,2019
./bin/tests/system/addzone/clean.sh SH 2010,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/addzone/ns1/inlineslave.db ZONE 2013,2016,2018,2019
./bin/tests/system/addzone/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/addzone/ns2/added.db ZONE 2010,2013,2016,2018,2019
./bin/tests/system/addzone/ns2/default.nzf.in X 2010,2018,2019
./bin/tests/system/addzone/ns2/hints.db ZONE 2016,2018,2019
./bin/tests/system/addzone/ns2/inline.db ZONE 2013,2016,2018,2019
./bin/tests/system/addzone/ns2/named1.conf.in CONF-C 2018,2019
./bin/tests/system/addzone/ns2/named2.conf.in CONF-C 2018,2019
./bin/tests/system/addzone/ns2/normal.db ZONE 2010,2016,2018,2019
./bin/tests/system/addzone/ns2/previous.db ZONE 2010,2016,2018,2019
./bin/tests/system/addzone/ns2/redirect.db ZONE 2016,2018,2019
./bin/tests/system/addzone/ns3/e.db ZONE 2017,2018,2019
./bin/tests/system/addzone/ns3/named1.conf.in CONF-C 2018,2019
./bin/tests/system/addzone/ns3/named2.conf.in CONF-C 2018,2019
./bin/tests/system/addzone/setup.sh SH 2010,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/addzone/tests.sh SH 2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/allow-query/clean.sh SH 2018,2019

./bin/tests/system/allow-query/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns1/root.db ZONE 2018,2019
./bin/tests/system/allow-query/ns2/generic.db ZONE 2018,2019
./bin/tests/system/allow-query/ns2/named01.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named02.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named03.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named04.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named05.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named06.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named07.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named08.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named09.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named10.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named11.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named12.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named21.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named22.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named23.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named24.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named25.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named26.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named27.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named28.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named29.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named30.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named31.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named32.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named33.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named34.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named40.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named53.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named54.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named55.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named56.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns2/named57.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/ns3/named.args X 2018,2019
./bin/tests/system/allow-query/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/allow-query/setup.sh SH 2018,2019
./bin/tests/system/allow-query/tests.sh SH 2018,2019
./bin/tests/system/ans.pl PERL 2011,2012,2014,2016,2017,2018,2019
./bin/tests/system/autosign/clean.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/autosign/ns1/keygen.sh SH 2009,2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/autosign/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/ns1/root.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/autosign/ns2/Xbar.+005+30676.key X 2010,2018,2019
./bin/tests/system/autosign/ns2/Xbar.+005+30676.private X 2010,2018,2019
./bin/tests/system/autosign/ns2/Xbar.+005+30804.key X 2010,2018,2019
./bin/tests/system/autosign/ns2/Xbar.+005+30804.private X 2010,2018,2019

./bin/tests/system/autosign/ns2/bar.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns2/child.nsec3.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns2/child.optout.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns2/dst.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns2/example.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/autosign/ns2/insecure.secure.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns2/keygen.sh SH 2009,2010,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/autosign/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/ns2/private.secure.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/autonsec3.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/delay.example.db ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/delzsk.example.db.in ZONE 2018,2019
./bin/tests/system/autosign/ns3/inacksk2.example.db.in ZONE 2017,2018,2019
./bin/tests/system/autosign/ns3/inacksk3.example.db.in ZONE 2017,2018,2019
./bin/tests/system/autosign/ns3/inaczsk.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/inaczsk2.example.db.in ZONE 2017,2018,2019
./bin/tests/system/autosign/ns3/inaczsk3.example.db.in ZONE 2017,2018,2019
./bin/tests/system/autosign/ns3/insecure.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/keygen.sh SH 2009,2010,2011,2012,2014,2015,2016,2017,2018,2019
./bin/tests/system/autosign/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/ns3/nozsk.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/nsec.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns3/nsec3-to-nsec.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns3/nsec3.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/nsec3.nsec3.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/nsec3.optout.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/oldsigs.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns3/optout.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/optout.nsec3.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/optout.optout.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/secure-to-insecure.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns3/secure-to-insecure2.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/autosign/ns3/secure.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/secure.nsec3.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/secure.optout.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/autosign/ns3/sync.example.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/autosign/ns3/ttl1.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/ttl2.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/ttl3.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns3/ttl4.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/autosign/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/autosign/prereq.sh SH 2009,2010,2012,2014,2016,2018,2019
./bin/tests/system/autosign/setup.sh SH 2009,2010,2012,2014,2016,2018,2019
./bin/tests/system/autosign/tests.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/builtin/clean.sh SH 2014,2016,2018,2019

./bin/tests/system/builtin/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/builtin/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/builtin/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/builtin/setup.sh SH 2018,2019
./bin/tests/system/builtin/tests.sh SH 2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/cachecclean/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/cachecclean/dig.batch X 2001,2018,2019
./bin/tests/system/cachecclean/knowngood.dig.out X 2001,2018,2019
./bin/tests/system/cachecclean/ns1/example.db ZONE 2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/cachecclean/ns1/expire-test.db ZONE 2014,2016,2018,2019
./bin/tests/system/cachecclean/ns1/flushtest.db ZONE 2011,2016,2018,2019
./bin/tests/system/cachecclean/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/cachecclean/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/cachecclean/setup.sh SH 2018,2019
./bin/tests/system/cachecclean/tests.sh SH 2001,2004,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/case/clean.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/case/dynamic.good X 2015,2018,2019
./bin/tests/system/case/ns1/dynamic.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/case/ns1/example.db ZONE 2013,2016,2018,2019
./bin/tests/system/case/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/case/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/case/postns1.good X 2015,2018,2019
./bin/tests/system/case/postupdate.good X 2015,2018,2019
./bin/tests/system/case/setup.sh SH 2015,2016,2018,2019
./bin/tests/system/case/tests.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/catz/clean.sh SH 2016,2018,2019
./bin/tests/system/catz/ns1/catalog.example.db.in ZONE 2016,2018,2019
./bin/tests/system/catz/ns1/named.conf.in CONF-C 2016,2017,2018,2019
./bin/tests/system/catz/ns2/named.conf.in CONF-C 2016,2017,2018,2019
./bin/tests/system/catz/ns3/dom5.example.db ZONE 2016,2018,2019
./bin/tests/system/catz/ns3/dom6.example.db ZONE 2016,2018,2019
./bin/tests/system/catz/ns3/named.conf.in CONF-C 2016,2018,2019
./bin/tests/system/catz/setup.sh SH 2016,2018,2019
./bin/tests/system/catz/tests.sh SH 2016,2017,2018,2019
./bin/tests/system/chain/README TXT.BRIEF 2017,2018,2019
./bin/tests/system/chain/ans3/ans.pl PERL 2017,2018,2019
./bin/tests/system/chain/ans4/README.anspy TXT.BRIEF 2017,2018,2019
./bin/tests/system/chain/ans4/ans.py PYTHON 2017,2018,2019
./bin/tests/system/chain/clean.sh SH 2011,2012,2014,2015,2016,2017,2018,2019
./bin/tests/system/chain/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/chain/ns1/root.db ZONE 2011,2016,2017,2018,2019
./bin/tests/system/chain/ns2/example.db ZONE 2011,2016,2017,2018,2019
./bin/tests/system/chain/ns2/generic.db ZONE 2017,2018,2019
./bin/tests/system/chain/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/chain/ns2/sign.sh SH 2017,2018,2019
./bin/tests/system/chain/ns2/sub.db ZONE 2017,2018,2019
./bin/tests/system/chain/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/chain/ns5/sub.db ZONE 2017,2018,2019

./bin/tests/system/chain/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/chain/ns7/root.hint ZONE 2017,2018,2019
./bin/tests/system/chain/prereq.sh SH 2017,2018,2019
./bin/tests/system/chain/setup.sh SH 2017,2018,2019
./bin/tests/system/chain/tests.sh SH 2011,2012,2016,2017,2018,2019
./bin/tests/system/checkconf/altdb.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/altdlz.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/bad-also-notify.conf CONF-C 2012,2013,2016,2018,2019
./bin/tests/system/checkconf/bad-catz-zone.conf CONF-C 2016,2018,2019
./bin/tests/system/checkconf/bad-dnssec.conf CONF-C 2012,2013,2016,2018,2019
./bin/tests/system/checkconf/bad-hint.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/bad-in-view-dup.conf CONF-C 2018,2019
./bin/tests/system/checkconf/bad-inline-slave.conf CONF-C 2013,2016,2018,2019
./bin/tests/system/checkconf/bad-keep-response-order.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/checkconf/bad-lifetime.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/bad-lmdb-mapsize-bogus.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/bad-lmdb-mapsize-toolarge.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/bad-lmdb-mapsize-toosmall.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/bad-lmdb-mapsize-unlimited.conf CONF-C 2017,2018,2019
./bin/tests/system/checkconf/bad-many.conf CONF-C 2005,2012,2015,2016,2018,2019
./bin/tests/system/checkconf/bad-master-request-ixfr.conf CONF-C 2014,2016,2018,2019
./bin/tests/system/checkconf/bad-maxttlmap.conf CONF-C 2014,2016,2018,2019
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./bin/tests/system/checkds/wrong.example.dlv.example.dlv.db X 2012,2018,2019
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./bin/tests/system/checknames/ns1/warn.update.db.in ZONE 2004,2007,2016,2018,2019
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./bin/tests/system/checknames/ns3/root.hints ZONE 2004,2007,2016,2018,2019
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./bin/tests/system/cookie/ns2/root.db ZONE 2014,2015,2016,2018,2019
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./bin/tests/system/cookie/tests.sh SH 2014,2015,2016,2017,2018,2019
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./bin/tests/system/coverage/09-check-zsk/README X 2014,2018,2019
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./bin/tests/system/coverage/setup.sh SH 2013,2014,2016,2018,2019
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./bin/tests/system/database/clean.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/database/ns1/named1.conf.in CONF-C 2011,2013,2018,2019
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./bin/tests/system/database/setup.sh SH 2011,2012,2016,2018,2019
./bin/tests/system/database/tests.sh SH 2011,2012,2016,2018,2019
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./bin/tests/system/dialup/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/dialup/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/digcomp.pl PERL 2000,2001,2004,2007,2012,2013,2016,2018,2019
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 ./bin/tests/system/ditch.pl PERL 2015,2016,2018,2019
 ./bin/tests/system/dlv/clean.sh SH 2004,2007,2010,2011,2012,2014,2016,2018,2019
 ./bin/tests/system/dlv/ns1/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/dlv/ns1/root.db.in ZONE 2011,2016,2018,2019
 ./bin/tests/system/dlv/ns1/rootservers.utld.db ZONE 2004,2007,2016,2018,2019
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 ./bin/tests/system/dlv/ns2/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/dlv/ns2/sign.sh SH 2011,2012,2014,2016,2018,2019
 ./bin/tests/system/dlv/ns2/utld.db ZONE 2004,2007,2016,2018,2019
 ./bin/tests/system/dlv/ns3/child.db.in ZONE 2004,2007,2010,2016,2018,2019
 ./bin/tests/system/dlv/ns3/dlv.db.in ZONE 2004,2007,2016,2018,2019
 ./bin/tests/system/dlv/ns3/hints ZONE 2004,2007,2016,2018,2019
 ./bin/tests/system/dlv/ns3/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/dlv/ns3/sign.sh SH 2004,2007,2009,2010,2011,2012,2014,2016,2018,2019
 ./bin/tests/system/dlv/ns4/child.db ZONE 2004,2007,2016,2018,2019
 ./bin/tests/system/dlv/ns4/hints ZONE 2004,2007,2016,2018,2019
 ./bin/tests/system/dlv/ns4/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/dlv/ns5/hints ZONE 2004,2007,2016,2018,2019
 ./bin/tests/system/dlv/ns5/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/dlv/ns5/rndc.conf CONF-C 2004,2007,2013,2016,2018,2019
 ./bin/tests/system/dlv/ns6/child.db.in ZONE 2010,2016,2018,2019
 ./bin/tests/system/dlv/ns6/hints ZONE 2010,2016,2018,2019
 ./bin/tests/system/dlv/ns6/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/dlv/ns6/sign.sh SH 2010,2011,2012,2014,2016,2018,2019
 ./bin/tests/system/dlv/prereq.sh SH 2014,2016,2018,2019
 ./bin/tests/system/dlv/setup.sh SH 2004,2007,2009,2011,2012,2014,2016,2018,2019
 ./bin/tests/system/dlv/tests.sh SH 2004,2007,2010,2011,2012,2016,2018,2019
 ./bin/tests/system/dlz/clean.sh SH 2010,2012,2014,2016,2018,2019
 ./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/DNAME=10=example.net.= TXT.BRIEF
 2015,2016,2018,2019
 ./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/NS=10=example.com.= TXT.BRIEF 2015,2016,2018,2019
 ./bin/tests/system/dlz/ns1/dns-
 root/com/broken/dns.d/@/SOA=10=ns.example.com.=root.example.com.=None=None=None=None=None=
 TXT.BRIEF 2015,2016,2018,2019
 ./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/DNAME=10=example.net.= TXT.BRIEF
 2010,2016,2018,2019
 ./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/NS=10=example.com.= TXT.BRIEF 2010,2016,2018,2019
 ./bin/tests/system/dlz/ns1/dns-
 root/com/example/dns.d/@/SOA=10=ns.example.com.=root.example.com.=2010062900=0=0=0=10= TXT.BRIEF
 2010,2016,2018,2019
 ./bin/tests/system/dlz/ns1/dns-root/com/example/xfr.d/10.53.0.1 TXT.BRIEF 2010,2016,2018,2019
 ./bin/tests/system/dlz/ns1/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/dlz/prereq.sh.in SH 2011,2012,2016,2018,2019

./bin/tests/system/dlz/setup.sh SH 2018,2019
./bin/tests/system/dlz/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019
./bin/tests/system/dlzexternal/Makefile.in MAKE 2011,2012,2014,2015,2016,2017,2018,2019
./bin/tests/system/dlzexternal/clean.sh SH 2010,2012,2014,2015,2016,2018,2019
./bin/tests/system/dlzexternal/driver.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/dlzexternal/driver.h C 2011,2016,2018,2019
./bin/tests/system/dlzexternal/ns1/dlzs.conf.in CONF-C 2018,2019
./bin/tests/system/dlzexternal/ns1/named.conf.in CONF-C 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/dlzexternal/ns1/root.db ZONE 2014,2016,2018,2019
./bin/tests/system/dlzexternal/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/dlzexternal/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/dlzexternal/tests.sh SH 2010,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/dns64/clean.sh SH 2010,2012,2014,2015,2016,2018,2019
./bin/tests/system/dns64/conf/bad1.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad2.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad3.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad4.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad5.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad6.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/bad7.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/dns64/conf/bad8.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/dns64/conf/bad9.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/dns64/conf/good1.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/good2.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/good3.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/good4.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/conf/good5.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/dns64/ns1/example.db ZONE 2010,2011,2013,2016,2018,2019
./bin/tests/system/dns64/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dns64/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/system/dns64/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/dns64/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dns64/ns2/rpz.db ZONE 2013,2016,2018,2019
./bin/tests/system/dns64/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/dns64/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/dns64/tests.sh SH 2010,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/README TXT.BRIEF 2000,2001,2002,2004,2011,2016,2018,2019
./bin/tests/system/dnssec/clean.sh SH
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/dnssec/dnssec_update_test.pl PERL 2002,2004,2007,2010,2012,2016,2018,2019
./bin/tests/system/dnssec/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns1/root.db.in ZONE 2000,2001,2004,2007,2010,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns1/sign.sh SH
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns2/algroll.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns2/badparam.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns2/cdnskey-auto.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/cdnskey-update.secure.db.in ZONE 2015,2016,2018,2019

./bin/tests/system/dnssec/ns2/cdnskey.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/cds-auto.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/cds-update.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/cds.secure.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/child.nsec3.example.db ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns2/child.optout.example.db ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns2/dlv.db.in ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns2/dst.example.db.in ZONE 2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns2/example.db.in ZONE
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns2/in-addr.arpa.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/dnssec/ns2/insecure.secure.example.db ZONE 2000,2001,2004,2007,2013,2016,2018,2019
./bin/tests/system/dnssec/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns2/private.secure.example.db.in ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns2/rfc2335.example.db X 2004,2018,2019
./bin/tests/system/dnssec/ns2/sign.sh SH
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/dnssec/ns2/single-nsec3.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns3/auto-nsec.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/auto-nsec3.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/bogus.example.db.in ZONE 2000,2001,2004,2007,2014,2016,2018,2019
./bin/tests/system/dnssec/ns3/dnskey-nsec3-unknown.example.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/dnssec/ns3/dnskey-unknown.example.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/dnssec/ns3/dynamic.example.db.in ZONE 2002,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns3/expired.example.db.in ZONE 2011,2012,2016,2018,2019
./bin/tests/system/dnssec/ns3/expiring.example.db.in ZONE 2011,2012,2016,2018,2019
./bin/tests/system/dnssec/ns3/future.example.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/dnssec/ns3/generic.example.db.in ZONE 2001,2002,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns3/inline.example.db ZONE 2012,2016,2018,2019
./bin/tests/system/dnssec/ns3/insecure.below-cname.example.db ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/insecure.example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns3/insecure.nsec3.example.db ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/insecure.optout.example.db ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/kskonly.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns3/lower.example.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dnssec/ns3/managed-future.example.db.in ZONE 2016,2018,2019
./bin/tests/system/dnssec/ns3/multiple.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns3/nosign.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/nsec3-unknown.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/nsec3.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/nsec3.nsec3.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/nsec3.optout.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/optout-unknown.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/optout.example.db.in ZONE 2006,2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/optout.nsec3.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/optout.optout.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/publish-inactive.example.db.in ZONE 2013,2016,2018,2019

./bin/tests/system/dnssec/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/dnssec/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019
./bin/tests/system/dnssec/ns3/secure.below-cname.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/secure.example.db.in ZONE
2000,2001,2004,2007,2008,2010,2012,2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns3/secure.nsec3.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/secure.optout.example.db.in ZONE 2008,2016,2018,2019
./bin/tests/system/dnssec/ns3/siginterval.example.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/dnssec/ns3/siginterval1.conf CONF-C 2013,2016,2018,2019
./bin/tests/system/dnssec/ns3/siginterval2.conf CONF-C 2013,2016,2018,2019
./bin/tests/system/dnssec/ns3/sign.sh SH
2000,2001,2002,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/dnssec/ns3/split-dnssec.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/split-smart.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/tlpatch.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/update-nsec3.example.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/dnssec/ns3/upper.example.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dnssec/ns4/named1.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns4/named2.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns4/named3.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns4/named4.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns4/named5.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns5/named1.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns5/named2.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns5/sign.sh SH 2015,2016,2018,2019
./bin/tests/system/dnssec/ns5/trusted.conf.bad CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/dnssec/ns6/named.args X 2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns6/optout-tld.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/dnssec/ns6/sign.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/dnssec/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnssec/ns7/named.nosoa TXT.BRIEF 2010,2016,2018,2019
./bin/tests/system/dnssec/ns7/nosoa.secure.example.db ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/ns7/sign.sh SH 2014,2016,2018,2019
./bin/tests/system/dnssec/ns7/split-rrsig.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/dnssec/ntadiff.pl PERL 2015,2016,2018,2019
./bin/tests/system/dnssec/prereq.sh SH 2000,2001,2002,2004,2006,2007,2009,2012,2014,2015,2016,2018,2019
./bin/tests/system/dnssec/setup.sh SH 2000,2001,2004,2007,2009,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/dnssec/signer/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.key X 2018,2019
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.private X 2018,2019
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.key X 2018,2019
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.private X 2018,2019
./bin/tests/system/dnssec/signer/general/bogus-ksk.key X 2018,2019
./bin/tests/system/dnssec/signer/general/bogus-zsk.key X 2018,2019
./bin/tests/system/dnssec/signer/general/test1.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test2.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test3.zone ZONE 2018,2019

./bin/tests/system/dnssec/signer/general/test4.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test5.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test6.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test7.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/general/test8.zone ZONE 2018,2019
./bin/tests/system/dnssec/signer/remove.db.in ZONE 2016,2018,2019
./bin/tests/system/dnssec/signer/remove2.db.in ZONE 2016,2018,2019
./bin/tests/system/dnssec/tests.sh SH
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-po2.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-max.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-min.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/clean.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-buffer-hint.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-flush-timeout.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-input-queue-size.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-mpsc.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-spsc.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-output-queue-size.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/good-fstrm-set-reopen-interval.conf CONF-C 2016,2018,2019
./bin/tests/system/dnstap/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnstap/ns1/root.db ZONE 2015,2016,2018,2019
./bin/tests/system/dnstap/ns2/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/dnstap/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnstap/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnstap/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/dnstap/setup.sh SH 2018,2019
./bin/tests/system/dnstap/tests.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/dnstap/ydump.py PYTHON 2016,2017,2018,2019
./bin/tests/system/dscp/clean.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/dscp/ns1/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns1/root.db ZONE 2013,2016,2018,2019
./bin/tests/system/dscp/ns2/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns3/hint.db ZONE 2013,2016,2018,2019
./bin/tests/system/dscp/ns3/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns3/named.conf.in CONF-C 2018,2019

./bin/tests/system/dscp/ns4/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns4/root.db ZONE 2013,2016,2018,2019
./bin/tests/system/dscp/ns5/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns6/hint.db ZONE 2013,2016,2018,2019
./bin/tests/system/dscp/ns6/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/ns7/named.args X 2013,2014,2018,2019
./bin/tests/system/dscp/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/dscp/setup.sh SH 2018,2019
./bin/tests/system/dscp/tests.sh SH 2013,2016,2018,2019
./bin/tests/system/dsdigest/clean.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dsdigest/ns1/root.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dsdigest/ns1/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/ns2/bad.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dsdigest/ns2/good.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/dsdigest/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/dsdigest/ns2/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/dsdigest/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/dsdigest/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/dsdigest/tests.sh SH 2012,2016,2018,2019
./bin/tests/system/dupsigs/check_journal.pl PERL 2018,2019
./bin/tests/system/dupsigs/clean.sh SH 2018,2019
./bin/tests/system/dupsigs/ns1/named.args X 2018,2019
./bin/tests/system/dupsigs/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dupsigs/ns1/reset_keys.sh SH 2018,2019
./bin/tests/system/dupsigs/ns1/signing.test.db.in ZONE 2018,2019
./bin/tests/system/dupsigs/prereq.sh SH 2018,2019
./bin/tests/system/dupsigs/setup.sh SH 2018,2019
./bin/tests/system/dupsigs/tests.sh SH 2018,2019
./bin/tests/system/dyndb/Makefile.in MAKE 2015,2016,2018,2019
./bin/tests/system/dyndb/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/AUTHORS X 2015,2018,2019
./bin/tests/system/dyndb/driver/COPYING X 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/Makefile.in MAKE 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/README X 2015,2018,2019
./bin/tests/system/dyndb/driver/db.c X 2015,2016,2017,2018,2019
./bin/tests/system/dyndb/driver/db.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/driver.c X 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/instance.c X 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/instance.h X 2015,2016,2018,2019
./bin/tests/system/dyndb/driver/lock.c X 2015,2018,2019
./bin/tests/system/dyndb/driver/lock.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/log.c X 2015,2018,2019

./bin/tests/system/dyndb/driver/log.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/syncptr.c X 2015,2017,2018,2019
./bin/tests/system/dyndb/driver/syncptr.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/util.h X 2015,2018,2019
./bin/tests/system/dyndb/driver/zone.c X 2015,2018,2019
./bin/tests/system/dyndb/driver/zone.h X 2015,2018,2019
./bin/tests/system/dyndb/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/dyndb/prereq.sh SH 2015,2016,2018,2019
./bin/tests/system/dyndb/setup.sh SH 2018,2019
./bin/tests/system/dyndb/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/ecdsa/clean.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/ecdsa/ns1/named.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/ecdsa/ns1/root.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/ecdsa/ns1/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/ecdsa/ns2/named.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/ecdsa/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/ecdsa/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/ecdsa/tests.sh SH 2012,2013,2015,2016,2018,2019
./bin/tests/system/eddsa/clean.sh SH 2017,2018,2019
./bin/tests/system/eddsa/ns1/named.conf CONF-C 2017,2018,2019
./bin/tests/system/eddsa/ns1/root.db.in ZONE 2017,2018,2019
./bin/tests/system/eddsa/ns1/sign.sh SH 2017,2018,2019
./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.key X 2017,2018,2019
./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.private X 2017,2018,2019
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.key X 2017,2018,2019
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.private X 2017,2018,2019
./bin/tests/system/eddsa/ns2/example.com.db ZONE 2017,2018,2019
./bin/tests/system/eddsa/ns2/named.conf CONF-C 2017,2018,2019
./bin/tests/system/eddsa/ns2/sign.sh SH 2017,2018,2019
./bin/tests/system/eddsa/prereq.sh SH 2017,2018,2019
./bin/tests/system/eddsa/setup.sh SH 2017,2018,2019
./bin/tests/system/eddsa/tests.sh SH 2017,2018,2019
./bin/tests/system/ednscompliance/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/ednscompliance/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/ednscompliance/ns1/root.db ZONE 2014,2016,2018,2019
./bin/tests/system/ednscompliance/setup.sh SH 2018,2019
./bin/tests/system/ednscompliance/tests.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/emptyzones/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/emptyzones/ns1/empty.db ZONE 2014,2016,2018,2019
./bin/tests/system/emptyzones/ns1/named1.conf.in CONF-C 2018,2019
./bin/tests/system/emptyzones/ns1/named2.conf.in CONF-C 2018,2019
./bin/tests/system/emptyzones/ns1/rfc1918.zones CONF-C 2014,2016,2018,2019
./bin/tests/system/emptyzones/ns1/root.hint ZONE 2014,2016,2018,2019
./bin/tests/system/emptyzones/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/emptyzones/tests.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/feature-test.c C 2016,2017,2018,2019
./bin/tests/system/fetchlimit/ans4/ans.pl PERL 2015,2016,2018,2019
./bin/tests/system/fetchlimit/clean.sh SH 2015,2016,2018,2019

./bin/tests/system/fetchlimit/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns1/root.db ZONE 2015,2016,2018,2019
./bin/tests/system/fetchlimit/ns2/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/fetchlimit/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns3/named.args X 2015,2018,2019
./bin/tests/system/fetchlimit/ns3/named1.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns3/named2.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns3/named3.conf.in CONF-C 2018,2019
./bin/tests/system/fetchlimit/ns3/root.hint ZONE 2015,2016,2018,2019
./bin/tests/system/fetchlimit/prereq.sh SH 2018,2019
./bin/tests/system/fetchlimit/setup.sh SH 2015,2016,2018,2019
./bin/tests/system/fetchlimit/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/filter-aaaa/clean.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad1.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad2.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad3.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad4.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad5.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/bad6.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good1.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good2.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good3.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good4.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good5.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good6.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good7.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/conf/good8.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/ns1/named1.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns1/named2.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns1/root.db ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/ns1/signed.db.in ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns1/signed.db.presigned X 2014,2017,2018,2019
./bin/tests/system/filter-aaaa/ns1/unsigned.db ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns2/hints ZONE 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/ns2/named1.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns2/named2.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns3/hints ZONE 2010,2016,2018,2019
./bin/tests/system/filter-aaaa/ns3/named1.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns3/named2.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns4/named1.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns4/named2.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/ns4/root.db ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/ns4/signed.db.in ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns4/signed.db.presigned X 2014,2018,2019
./bin/tests/system/filter-aaaa/ns4/unsigned.db ZONE 2010,2012,2016,2017,2018,2019
./bin/tests/system/filter-aaaa/ns5/hints ZONE 2018,2019

./bin/tests/system/filter-aaaa/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/filter-aaaa/prereq.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/filter-aaaa/tests.sh SH 2010,2012,2015,2016,2017,2018,2019
./bin/tests/system/formerr/clean.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/formerr/formerr.pl PERL 2013,2014,2016,2018,2019
./bin/tests/system/formerr/nametoolong X 2013,2018,2019
./bin/tests/system/formerr/noquestions X 2013,2018,2019
./bin/tests/system/formerr/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/formerr/ns1/root.db ZONE 2013,2016,2018,2019
./bin/tests/system/formerr/setup.sh SH 2018,2019
./bin/tests/system/formerr/tests.sh SH 2013,2015,2016,2018,2019
./bin/tests/system/formerr/twoquestions X 2013,2018,2019
./bin/tests/system/forward/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/forward/ns1/example.db X 2000,2001,2018,2019
./bin/tests/system/forward/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/forward/ns2/example.db X 2000,2001,2018,2019
./bin/tests/system/forward/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns2/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/forward/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns3/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/forward/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns4/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/forward/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/forward/ns5/root.db ZONE 2011,2016,2018,2019
./bin/tests/system/forward/rfc1918-inherited.conf CONF-C 2016,2018,2019
./bin/tests/system/forward/rfc1918-notinherited.conf CONF-C 2016,2018,2019
./bin/tests/system/forward/setup.sh SH 2018,2019
./bin/tests/system/forward/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/forward/ula-inherited.conf CONF-C 2016,2018,2019
./bin/tests/system/forward/ula-notinherited.conf CONF-C 2016,2018,2019
./bin/tests/system/genzone.sh SH 2001,2002,2003,2004,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/geoip/clean.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/geoip/data/GeoIP.csv X 2013,2014,2018,2019
./bin/tests/system/geoip/data/GeoIP.dat X 2013,2014,2018,2019
./bin/tests/system/geoip/data/GeoIPASNum.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPASNum.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPASNumv6.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPASNumv6.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPCity.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPCity.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPCityv6.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPCityv6.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPDomain.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPDomain.dat X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPISP.csv X 2013,2018,2019
./bin/tests/system/geoip/data/GeoIPISP.dat X 2013,2018,2019

./bin/tests/system/geoup/data/GeoIPNetSpeed.csv X 2013,2018,2019
./bin/tests/system/geoup/data/GeoIPNetSpeed.dat X 2013,2018,2019
./bin/tests/system/geoup/data/GeoIPOrg.csv X 2013,2018,2019
./bin/tests/system/geoup/data/GeoIPOrg.dat X 2013,2018,2019
./bin/tests/system/geoup/data/GeoIPRegion.csv X 2013,2018,2019
./bin/tests/system/geoup/data/GeoIPRegion.dat X 2013,2018,2019
./bin/tests/system/geoup/data/GeoIPv6.csv X 2013,2018,2019
./bin/tests/system/geoup/data/GeoIPv6.dat X 2013,2018,2019
./bin/tests/system/geoup/data/README TXT.BRIEF 2013,2014,2016,2018,2019
./bin/tests/system/geoup/ns2/example.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/geoup/ns2/named1.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named10.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named11.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named12.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named13.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named14.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named15.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named2.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named3.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named4.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named5.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named6.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named7.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named8.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/ns2/named9.conf.in CONF-C 2018,2019
./bin/tests/system/geoup/options.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/geoup/prereq.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/geoup/setup.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/geoup/tests.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/glue/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/glue/fi.good X 2000,2001,2018,2019
./bin/tests/system/glue/nogluce.good X 2000,2001,2018,2019
./bin/tests/system/glue/ns1/cache.in ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/ns1/mil.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/glue/ns1/net.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/ns1/root-servers.nil.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/glue/setup.sh SH 2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/glue/tests.sh SH 2000,2001,2003,2004,2007,2012,2013,2016,2018,2019
./bin/tests/system/glue/xx.good X 2000,2001,2018,2019
./bin/tests/system/glue/yy.good X 2000,2001,2003,2018,2019
./bin/tests/system/gost/clean.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/gost/ns1/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/gost/ns1/root.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/gost/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/gost/ns2/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/gost/prereq.sh SH 2010,2012,2014,2016,2018,2019

./bin/tests/system/gost/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/gost/tests.sh SH 2010,2012,2013,2016,2018,2019
./bin/tests/system/idna/clean.sh SH 2018,2019
./bin/tests/system/idna/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/idna/ns1/root.db ZONE 2018,2019
./bin/tests/system/idna/setup.sh SH 2018,2019
./bin/tests/system/idna/tests.sh SH 2018,2019
./bin/tests/system/ifconfig.bat BAT 2016,2018,2019
./bin/tests/system/ifconfig.sh SH 2000,2001,2002,2003,2004,2007,2008,2009,2010,2012,2013,2016,2018,2019
./bin/tests/system/inline/checkdsa.sh.in SH 2013,2014,2016,2018,2019
./bin/tests/system/inline/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/inline/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns1/root.db.in ZONE 2011,2012,2013,2016,2017,2018,2019
./bin/tests/system/inline/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/inline/ns2/bits.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/inline/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns2/nsec3-loop.db ZONE 2017,2018,2019
./bin/tests/system/inline/ns3/master.db.in ZONE 2011,2012,2016,2018,2019
./bin/tests/system/inline/ns3/master2.db.in ZONE 2011,2012,2016,2018,2019
./bin/tests/system/inline/ns3/master3.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/inline/ns3/master4.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/inline/ns3/master5.db.in ZONE 2018,2019
./bin/tests/system/inline/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns3/sign.sh SH 2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/inline/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns4/noixfr.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/inline/ns5/named.conf.post CONF-C 2011,2014,2016,2018,2019
./bin/tests/system/inline/ns5/named.conf.pre CONF-C 2011,2016,2018,2019
./bin/tests/system/inline/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/inline/ns7/sign.sh SH 2017,2018,2019
./bin/tests/system/inline/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/inline/setup.sh SH 2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/inline/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/integrity/clean.sh SH 2017,2018,2019
./bin/tests/system/integrity/ns1/mx-cname.db ZONE 2017,2018,2019
./bin/tests/system/integrity/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/integrity/ns1/srv-cname.db ZONE 2017,2018,2019
./bin/tests/system/integrity/setup.sh SH 2018,2019
./bin/tests/system/integrity/tests.sh SH 2017,2018,2019
./bin/tests/system/ixfr/ans2/startme X 2011,2018,2019
./bin/tests/system/ixfr/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/ixfr/ns1/startme X 2012,2013,2018,2019
./bin/tests/system/ixfr/ns3/mytest0.db ZONE 2011,2016,2018,2019
./bin/tests/system/ixfr/ns3/mytest1.db ZONE 2011,2016,2018,2019
./bin/tests/system/ixfr/ns3/mytest2.db ZONE 2011,2016,2018,2019
./bin/tests/system/ixfr/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/ixfr/ns3/subtest0.db ZONE 2011,2016,2018,2019

./bin/tests/system/ixfr/ns3/subtest1.db ZONE 2011,2016,2018,2019
./bin/tests/system/ixfr/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/ixfr/prereq.sh SH 2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/ixfr/setup.sh SH 2001,2004,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/ixfr/tests.sh SH 2001,2004,2007,2011,2012,2014,2016,2018,2019
./bin/tests/system/keymgr/01-ksk-inactive/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/01-ksk-inactive/expect X 2016,2018,2019
./bin/tests/system/keymgr/02-zsk-inactive/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/02-zsk-inactive/expect X 2016,2018,2019
./bin/tests/system/keymgr/03-ksk-unpublished/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/03-ksk-unpublished/expect X 2016,2018,2019
./bin/tests/system/keymgr/04-zsk-unpublished/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/04-zsk-unpublished/expect X 2016,2018,2019
./bin/tests/system/keymgr/05-ksk-unpub-active/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/05-ksk-unpub-active/expect X 2016,2018,2019
./bin/tests/system/keymgr/06-zsk-unpub-active/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/06-zsk-unpub-active/expect X 2016,2018,2019
./bin/tests/system/keymgr/07-ksk-ttl/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/07-ksk-ttl/expect X 2016,2018,2019
./bin/tests/system/keymgr/08-zsk-ttl/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/08-zsk-ttl/expect X 2016,2018,2019
./bin/tests/system/keymgr/09-no-keys/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/09-no-keys/expect X 2016,2018,2019
./bin/tests/system/keymgr/10-change-roll/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/10-change-roll/expect X 2016,2018,2019
./bin/tests/system/keymgr/11-many-simul/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/11-many-simul/expect X 2016,2018,2019
./bin/tests/system/keymgr/12-many-active/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/12-many-active/expect X 2016,2018,2019
./bin/tests/system/keymgr/13-noroll/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/13-noroll/expect X 2016,2018,2019
./bin/tests/system/keymgr/14-wrongalg/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/14-wrongalg/expect X 2016,2018,2019
./bin/tests/system/keymgr/15-unspec/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/15-unspec/expect X 2016,2018,2019
./bin/tests/system/keymgr/16-wrongalg-unspec/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/16-wrongalg-unspec/expect X 2016,2018,2019
./bin/tests/system/keymgr/17-noforce/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/17-noforce/expect X 2016,2018,2019
./bin/tests/system/keymgr/18-nonstd-prepub/README.TXT.BRIEF 2016,2018,2019
./bin/tests/system/keymgr/18-nonstd-prepub/expect X 2016,2018,2019
./bin/tests/system/keymgr/18-nonstd-prepub/policy.conf CONF-C 2016,2018,2019
./bin/tests/system/keymgr/clean.sh SH 2016,2018,2019
./bin/tests/system/keymgr/policy.conf CONF-C 2016,2018,2019
./bin/tests/system/keymgr/policy.good X 2016,2018,2019
./bin/tests/system/keymgr/policy.sample CONF-C 2016,2017,2018,2019
./bin/tests/system/keymgr/prereq.sh SH 2016,2018,2019
./bin/tests/system/keymgr/setup.sh SH 2016,2018,2019

./bin/tests/system/keymgr/testpolicy.py PYTHON 2016,2018,2019
./bin/tests/system/keymgr/tests.sh SH 2016,2018,2019
./bin/tests/system/legacy/build.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/clean.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/ns1/named1.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns1/named2.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns1/root.db ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns1/trusted.conf X 2014,2018,2019
./bin/tests/system/legacy/ns2/dropedns.db ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns2/named.dropedns X 2014,2018,2019
./bin/tests/system/legacy/ns3/dropedns-notcp.db ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns3/named.dropedns X 2014,2018,2019
./bin/tests/system/legacy/ns3/named.notcp X 2014,2018,2019
./bin/tests/system/legacy/ns4/named.args X 2014,2018,2019
./bin/tests/system/legacy/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns4/plain.db ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns5/named.args X 2014,2018,2019
./bin/tests/system/legacy/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns5/named.notcp X 2014,2018,2019
./bin/tests/system/legacy/ns5/plain-notcp.db ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns6/edns512.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns6/edns512.db.signed X 2014,2018,2019
./bin/tests/system/legacy/ns6/named.args X 2014,2018,2019
./bin/tests/system/legacy/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns6/sign.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/ns7/edns512-notcp.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/legacy/ns7/edns512-notcp.db.signed X 2014,2018,2019
./bin/tests/system/legacy/ns7/named.args X 2014,2018,2019
./bin/tests/system/legacy/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/legacy/ns7/named.notcp X 2014,2018,2019
./bin/tests/system/legacy/ns7/sign.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/legacy/tests.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/limits/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/limits/knowngood.dig.out.1000 X 2000,2001,2018,2019
./bin/tests/system/limits/knowngood.dig.out.2000 X 2000,2001,2018,2019
./bin/tests/system/limits/knowngood.dig.out.3000 X 2000,2001,2018,2019
./bin/tests/system/limits/knowngood.dig.out.4000 X 2000,2001,2018,2019
./bin/tests/system/limits/knowngood.dig.out.a-maximum-rrset X 2000,2001,2018,2019
./bin/tests/system/limits/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/limits/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/limits/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/limits/setup.sh SH 2018,2019
./bin/tests/system/limits/tests.sh SH 2000,2001,2004,2007,2011,2012,2016,2018,2019
./bin/tests/system/logfileconfig/clean.sh SH 2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/controls.conf.in CONF-C 2018,2019

./bin/tests/system/logfileconfig/ns1/named.dirconf CONF-C 2011,2013,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.pipeconf CONF-C 2011,2013,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.plain CONF-C 2011,2013,2014,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.plainconf CONF-C 2014,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.symconf CONF-C 2011,2013,2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.unlimited CONF-C 2016,2018,2019
./bin/tests/system/logfileconfig/ns1/named.versconf CONF-C 2016,2018,2019
./bin/tests/system/logfileconfig/ns1/rndc.conf.in CONF-C 2011,2013,2016,2017,2018,2019
./bin/tests/system/logfileconfig/ns1/root.db ZONE 2011,2016,2018,2019
./bin/tests/system/logfileconfig/setup.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/logfileconfig/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/lwresd/Makefile.in MAKE 2000,2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019
./bin/tests/system/lwresd/clean.sh SH 2008,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/lwresd/lwresd1/lwresd.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/lwresd1/nosearch.conf CONF-C 2016,2018,2019
./bin/tests/system/lwresd/lwresd1/resolv.conf CONF-SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/lwresd/lwtest.c C 2000,2001,2002,2004,2007,2008,2012,2013,2015,2016,2018,2019
./bin/tests/system/lwresd/ns1/10.10.10.in-addr.arpa.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/ns1/e.example1.db X 2008,2018,2019
./bin/tests/system/lwresd/ns1/example1.db ZONE 2000,2001,2002,2003,2004,2007,2008,2016,2018,2019
./bin/tests/system/lwresd/ns1/example2.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/ns1/ip6.arpa.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/ns1/ip6.int.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/ns1/named.conf CONF-C 2000,2001,2004,2006,2007,2008,2016,2018,2019
./bin/tests/system/lwresd/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/lwresd/resolv.conf CONF-SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/lwresd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/masterfile/clean.sh SH 2001,2004,2007,2010,2012,2014,2015,2016,2018,2019
./bin/tests/system/masterfile/knowngood.dig.out X 2001,2004,2012,2018,2019
./bin/tests/system/masterfile/ns1/include.db ZONE 2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/masterfile/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterfile/ns1/sub.db ZONE 2001,2004,2007,2016,2018,2019
./bin/tests/system/masterfile/ns1/tt1.db ZONE 2001,2004,2007,2016,2018,2019
./bin/tests/system/masterfile/ns1/tt2.db ZONE 2001,2004,2007,2016,2018,2019
./bin/tests/system/masterfile/ns2/example.db ZONE 2010,2016,2018,2019
./bin/tests/system/masterfile/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterfile/setup.sh SH 2018,2019
./bin/tests/system/masterfile/tests.sh SH 2001,2004,2007,2010,2012,2015,2016,2018,2019
./bin/tests/system/masterfile/zone/inheritorownerafterinclude.db ZONE 2015,2016,2018,2019
./bin/tests/system/masterfile/zone/inheritorownerafterinclude.good X 2015,2018,2019
./bin/tests/system/masterfile/zone/nameservers.db ZONE 2015,2016,2018,2019
./bin/tests/system/masterformat/clean.sh SH 2005,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/masterformat/ns1/compile.sh SH 2005,2006,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/masterformat/ns1/example.db ZONE 2005,2007,2014,2016,2018,2019
./bin/tests/system/masterformat/ns1/large.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/masterformat/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterformat/ns1/signed.db ZONE 2013,2016,2018,2019
./bin/tests/system/masterformat/ns2/formerly-text.db.in ZONE 2011,2016,2018,2019

./bin/tests/system/masterformat/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterformat/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/masterformat/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/masterformat/setup.sh SH 2005,2006,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/masterformat/tests.sh SH 2005,2007,2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/metadata/child.db ZONE 2009,2016,2018,2019
./bin/tests/system/metadata/clean.sh SH 2009,2011,2012,2014,2016,2017,2018,2019
./bin/tests/system/metadata/parent.db ZONE 2009,2016,2018,2019
./bin/tests/system/metadata/prereq.sh SH 2009,2012,2014,2016,2018,2019
./bin/tests/system/metadata/setup.sh SH 2009,2011,2012,2014,2016,2018,2019
./bin/tests/system/metadata/tests.sh SH 2009,2011,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/mkeys/README TXT.BRIEF 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/clean.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns1/named1.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns1/named2.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns1/named3.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns1/root.db ZONE 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns1/sign.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns2/named.args X 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns3/named.args X 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/mkeys/ns5/named1.args X 2017,2018,2019
./bin/tests/system/mkeys/ns5/named2.args X 2017,2018,2019
./bin/tests/system/mkeys/prereq.sh SH 2015,2016,2018,2019
./bin/tests/system/mkeys/setup.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/mkeys/tests.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/names/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/names/ns1/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/names/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/names/setup.sh SH 2015,2016,2018,2019
./bin/tests/system/names/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/notify/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/notify/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/notify/ns2/example1.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/notify/ns2/example2.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/notify/ns2/example3.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/notify/ns2/example4.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/notify/ns2/generic.db ZONE 2014,2016,2018,2019
./bin/tests/system/notify/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns4/named.port.in X 2018,2019
./bin/tests/system/notify/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/notify/ns5/x21.db ZONE 2015,2016,2018,2019
./bin/tests/system/notify/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019

./bin/tests/system/notify/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/nslookup/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/nslookup/ns1/example.net.db ZONE 2016,2018,2019
./bin/tests/system/nslookup/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/nslookup/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/nslookup/tests.sh SH 2014,2016,2018,2019
./bin/tests/system/nsupdate/ans4/ans.pl PERL 2017,2018,2019
./bin/tests/system/nsupdate/clean.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019
./bin/tests/system/nsupdate/commandlist X 2012,2018,2019
./bin/tests/system/nsupdate/knowngood.ns1.after X 2000,2001,2003,2004,2009,2018,2019
./bin/tests/system/nsupdate/knowngood.ns1.afterstop X 2001,2004,2018,2019
./bin/tests/system/nsupdate/knowngood.ns1.before X 2000,2001,2003,2004,2009,2018,2019
./bin/tests/system/nsupdate/krb/setup.sh SH 2018,2019
./bin/tests/system/nsupdate/ns1/example1.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019
./bin/tests/system/nsupdate/ns1/many.test.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/nsupdate/ns1/max-ttl.db ZONE 2014,2016,2018,2019
./bin/tests/system/nsupdate/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns1/sample.db.in ZONE 2016,2018,2019
./bin/tests/system/nsupdate/ns10/dns.keytab X 2018,2019
./bin/tests/system/nsupdate/ns10/example.com.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns10/in-addr.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns10/machine.ccache X 2018,2019
./bin/tests/system/nsupdate/ns10/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns2/sample.db.in ZONE 2016,2018,2019
./bin/tests/system/nsupdate/ns3/delegation.test.db.in ZONE 2016,2018,2019
./bin/tests/system/nsupdate/ns3/dnskey.test.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/nsupdate/ns3/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/nsupdate/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns3/nsec3param.test.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/nsupdate/ns3/sign.sh SH 2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/nsupdate/ns3/too-big.test.db.in ZONE 2016,2018,2019
./bin/tests/system/nsupdate/ns5/local.db.in ZONE 2017,2018,2019
./bin/tests/system/nsupdate/ns5/named.args X 2017,2018,2019
./bin/tests/system/nsupdate/ns5/named.conf.in CONF-C 2017,2018,2019
./bin/tests/system/nsupdate/ns6/in-addr.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns6/named.args X 2018,2019
./bin/tests/system/nsupdate/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns7/dns.keytab X 2018,2019
./bin/tests/system/nsupdate/ns7/example.com.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns7/in-addr.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns7/machine.ccache X 2018,2019
./bin/tests/system/nsupdate/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns8/dns.keytab X 2018,2019
./bin/tests/system/nsupdate/ns8/example.com.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns8/in-addr.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns8/machine.ccache X 2018,2019

./bin/tests/system/nsupdate/ns8/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/ns9/dns.keytab X 2018,2019
./bin/tests/system/nsupdate/ns9/example.com.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns9/in-addr.db.in ZONE 2018,2019
./bin/tests/system/nsupdate/ns9/machine.ccache X 2018,2019
./bin/tests/system/nsupdate/ns9/named.conf.in CONF-C 2018,2019
./bin/tests/system/nsupdate/prereq.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/nsupdate/setup.sh SH 2000,2001,2004,2007,2009,2010,2011,2012,2014,2016,2017,2018,2019
./bin/tests/system/nsupdate/tests.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/nsupdate/update_test.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/nsupdate/verylarge.in X 2013,2018,2019
./bin/tests/system/nzd2nzf/clean.sh SH 2016,2018,2019
./bin/tests/system/nzd2nzf/ns1/added.db ZONE 2016,2018,2019
./bin/tests/system/nzd2nzf/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/nzd2nzf/prereq.sh SH 2016,2018,2019
./bin/tests/system/nzd2nzf/setup.sh SH 2016,2018,2019
./bin/tests/system/nzd2nzf/tests.sh SH 2016,2018,2019
./bin/tests/system/org.isc.bind.system SH 2010,2012,2013,2016,2018,2019
./bin/tests/system/org.isc.bind.system.plist X 2010,2018,2019
./bin/tests/system/packet.pl PERL 2011,2012,2016,2018,2019
./bin/tests/system/pending/clean.sh SH 2009,2012,2014,2016,2018,2019
./bin/tests/system/pending/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/pending/ns1/root.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/pending/ns1/sign.sh SH 2009,2010,2012,2014,2016,2018,2019
./bin/tests/system/pending/ns2/example.com.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/pending/ns2/example.db.in ZONE 2009,2010,2016,2018,2019
./bin/tests/system/pending/ns2/forgery.db ZONE 2010,2016,2018,2019
./bin/tests/system/pending/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/pending/ns2/sign.sh SH 2009,2010,2012,2014,2016,2018,2019
./bin/tests/system/pending/ns3/hostile.db ZONE 2009,2016,2018,2019
./bin/tests/system/pending/ns3/mail.example.db ZONE 2009,2016,2018,2019
./bin/tests/system/pending/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/pending/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/pending/prereq.sh SH 2009,2012,2014,2016,2018,2019
./bin/tests/system/pending/setup.sh SH 2009,2012,2014,2016,2018,2019
./bin/tests/system/pending/tests.sh SH 2009,2010,2012,2015,2016,2018,2019
./bin/tests/system/pipelined/Makefile.in MAKE 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/clean.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/input X 2014,2015,2018,2019
./bin/tests/system/pipelined/inputb X 2014,2015,2018,2019
./bin/tests/system/pipelined/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/pipelined/ns1/root.db ZONE 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/ns2/examplea.db ZONE 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/pipelined/ns3/exampleb.db ZONE 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/ns3/named.args X 2014,2015,2018,2019
./bin/tests/system/pipelined/ns3/named.conf.in CONF-C 2018,2019

./bin/tests/system/pipelined/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/pipelined/pipequeries.c C 2014,2015,2015,2016,2018,2019
./bin/tests/system/pipelined/ref X 2014,2015,2018,2019
./bin/tests/system/pipelined/refb X 2014,2015,2018,2019
./bin/tests/system/pipelined/setup.sh SH 2014,2015,2016,2018,2019
./bin/tests/system/pipelined/tests.sh SH 2014,2015,2016,2017,2018,2019
./bin/tests/system/pkcs11/clean.sh SH 2010,2012,2014,2016,2017,2018,2019
./bin/tests/system/pkcs11/ns1/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/pkcs11/ns1/named.conf CONF-C 2018,2019
./bin/tests/system/pkcs11/prereq.sh SH 2010,2012,2014,2016,2017,2018,2019
./bin/tests/system/pkcs11/setup.sh SH 2010,2012,2013,2014,2016,2017,2018,2019
./bin/tests/system/pkcs11/tests.sh SH 2010,2012,2014,2016,2017,2018,2019
./bin/tests/system/pkcs11/usepkcs11 X 2010,2018,2019
./bin/tests/system/pkcs11ssl/clean.sh SH 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/ns1/example.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/ns1/named.conf CONF-C 2018,2019
./bin/tests/system/pkcs11ssl/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/tests.sh SH 2014,2016,2018,2019
./bin/tests/system/pkcs11ssl/usepkcs11 X 2014,2018,2019
./bin/tests/system/reclimit/README TXT.BRIEF 2014,2016,2017,2018,2019
./bin/tests/system/reclimit/ans2/ans.pl PERL 2014,2015,2016,2017,2018,2019
./bin/tests/system/reclimit/ans7/ans.pl PERL 2014,2016,2018,2019
./bin/tests/system/reclimit/clean.sh SH 2014,2016,2018,2019
./bin/tests/system/reclimit/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/ns1/root.db ZONE 2014,2016,2017,2018,2019
./bin/tests/system/reclimit/ns3/hints.db ZONE 2014,2016,2018,2019
./bin/tests/system/reclimit/ns3/named1.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/ns3/named2.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/ns3/named3.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/ns3/named4.conf.in CONF-C 2018,2019
./bin/tests/system/reclimit/prereq.sh SH 2015,2016,2017,2018,2019
./bin/tests/system/reclimit/setup.sh SH 2014,2016,2018,2019
./bin/tests/system/reclimit/tests.sh SH 2014,2015,2016,2017,2018,2019
./bin/tests/system/redirect/clean.sh SH 2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/redirect/conf/bad1.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/bad2.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/bad3.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/good1.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/good2.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/good3.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/conf/good4.conf CONF-C 2011,2016,2018,2019
./bin/tests/system/redirect/ns1/example.db ZONE 2011,2016,2018,2019
./bin/tests/system/redirect/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/redirect/ns1/redirect.db ZONE 2011,2016,2018,2019
./bin/tests/system/redirect/ns1/root.db ZONE 2011,2016,2018,2019
./bin/tests/system/redirect/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/redirect/ns2/example.db.in ZONE 2013,2016,2018,2019

./bin/tests/system/redirect/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/redirect/ns2/redirect.db.in ZONE 2011,2013,2013,2016,2018,2019
./bin/tests/system/redirect/ns3/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/redirect/ns3/redirect.db ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/ns3/root.db ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/ns3/sign.sh SH 2015,2016,2018,2019
./bin/tests/system/redirect/ns4/example.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/redirect/ns4/root.hint ZONE 2015,2016,2018,2019
./bin/tests/system/redirect/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/redirect/setup.sh SH 2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/redirect/tests.sh SH 2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/resolver/ans2/ans.pl PERL 2000,2001,2004,2007,2009,2010,2012,2016,2018,2019
./bin/tests/system/resolver/ans3/ans.pl PERL 2000,2001,2004,2007,2009,2012,2016,2018,2019
./bin/tests/system/resolver/ans8/ans.pl PERL 2017,2018,2019
./bin/tests/system/resolver/clean.sh SH 2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/resolver/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns1/root.hint ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/resolver/ns4/broken.db ZONE 2012,2016,2018,2019
./bin/tests/system/resolver/ns4/child.server.db ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/ns4/moves.db ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns4/named.noaa TXT.BRIEF 2010,2016,2018,2019
./bin/tests/system/resolver/ns4/root.db ZONE 2010,2014,2015,2016,2017,2018,2019
./bin/tests/system/resolver/ns4/tld1.db ZONE 2012,2014,2016,2018,2019
./bin/tests/system/resolver/ns4/tld2.db ZONE 2012,2014,2016,2018,2019
./bin/tests/system/resolver/ns5/child.server.db ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/ns5/moves.db ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns5/root.hint ZONE 2010,2016,2018,2019
./bin/tests/system/resolver/ns6/broken.db ZONE 2012,2016,2018,2019
./bin/tests/system/resolver/ns6/delegation-only.db ZONE 2015,2016,2018,2019
./bin/tests/system/resolver/ns6/ds.example.net.db.in ZONE 2016,2018,2019
./bin/tests/system/resolver/ns6/example.net.db.in ZONE 2010,2014,2016,2018,2019
./bin/tests/system/resolver/ns6/keygen.sh SH 2010,2012,2014,2016,2017,2018,2019
./bin/tests/system/resolver/ns6/moves.db ZONE 2011,2016,2018,2019
./bin/tests/system/resolver/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns6/no-edns-version.tld.db ZONE 2014,2016,2018,2019
./bin/tests/system/resolver/ns6/root.db ZONE 2010,2011,2014,2016,2018,2019
./bin/tests/system/resolver/ns6/to-be-removed.tld.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/resolver/ns7/all-cnames.db ZONE 2014,2016,2018,2019
./bin/tests/system/resolver/ns7/edns-version.tld.db ZONE 2014,2016,2018,2019
./bin/tests/system/resolver/ns7/named.args X 2011,2012,2014,2018,2019
./bin/tests/system/resolver/ns7/named1.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns7/named2.conf.in CONF-C 2018,2019
./bin/tests/system/resolver/ns7/root.hint ZONE 2010,2016,2018,2019
./bin/tests/system/resolver/ns7/server.db.in ZONE 2011,2016,2018,2019

./bin/tests/system/resolver/prereq.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/resolver/setup.sh SH 2010,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/resolver/tests.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rndc/Makefile.in MAKE 2014,2015,2016,2018,2019
./bin/tests/system/rndc/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rndc/gencheck.c C 2014,2015,2016,2018,2019
./bin/tests/system/rndc/ns2/incl.db ZONE 2013,2016,2018,2019
./bin/tests/system/rndc/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rndc/ns2/secondkey.conf CONF-C 2012,2013,2016,2018,2019
./bin/tests/system/rndc/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rndc/ns4/named.conf.in CONF-C 2013,2014,2015,2016,2018,2019
./bin/tests/system/rndc/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/rndc/ns6/named.args X 2016,2018,2019
./bin/tests/system/rndc/ns6/named.conf.in CONF-C 2016,2018,2019
./bin/tests/system/rndc/setup.sh SH 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/rndc/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rootkeysentinel/clean.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rootkeysentinel/ns1/root.db.in ZONE 2018,2019
./bin/tests/system/rootkeysentinel/ns1/sign.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/ns2/example.db.in ZONE 2018,2019
./bin/tests/system/rootkeysentinel/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rootkeysentinel/ns2/sign.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/ns3/hint.db ZONE 2018,2019
./bin/tests/system/rootkeysentinel/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rootkeysentinel/ns4/hint.db ZONE 2018,2019
./bin/tests/system/rootkeysentinel/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/rootkeysentinel/prereq.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/setup.sh SH 2018,2019
./bin/tests/system/rootkeysentinel/tests.sh SH 2018,2019
./bin/tests/system/rpz/clean.sh SH 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/rpz/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns1/root.db ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns2/base-tld2s.db ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns2/bl.tld2.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/ns2/blv2.tld2.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/ns2/blv3.tld2.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/ns2/hints ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns2/tld2.db ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns3/base.db ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns3/crash1 X 2011,2013,2018,2019
./bin/tests/system/rpz/ns3/crash2 X 2011,2012,2013,2018,2019
./bin/tests/system/rpz/ns3/hints ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns4/hints ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/ns4/named.conf.in CONF-C 2018,2019

./bin/tests/system/rpz/ns4/tld4.db ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns5/empty.db.in ZONE 2014,2016,2018,2019
./bin/tests/system/rpz/ns5/hints ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/ns5/named.args X 2013,2014,2018,2019
./bin/tests/system/rpz/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns5/tld5.db ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/ns6/hints ZONE 2014,2016,2018,2019
./bin/tests/system/rpz/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/ns7/hints ZONE 2014,2016,2018,2019
./bin/tests/system/rpz/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpz/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/rpz/qperf.sh SH 2012,2013,2016,2018,2019
./bin/tests/system/rpz/setup.sh SH 2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/rpz/test1 ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/test2 ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/test3 ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/test4 ZONE 2011,2013,2016,2018,2019
./bin/tests/system/rpz/test4a ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/test5 ZONE 2011,2012,2013,2016,2018,2019
./bin/tests/system/rpz/test6 ZONE 2013,2016,2018,2019
./bin/tests/system/rpz/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rpzrecurse/README TXT.BRIEF 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ans5/ans.pl PERL 2016,2018,2019
./bin/tests/system/rpzrecurse/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/db.l0 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/db.l1.l0 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rpzrecurse/ns1/root.db ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/test1.example.net.db ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns1/test2.example.net.db ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.clientip1 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.clientip2 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.clientip21 ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.log1 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.log2 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.log3 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.wildcard1 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.wildcard2a ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.wildcard2b ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/db.wildcard3 ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.clientip.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.clientip2.conf CONF-C 2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.conf.header.in CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.default.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.log.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.wildcard1.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/named.wildcard2.conf CONF-C 2015,2016,2018,2019

./bin/tests/system/rpzrecurse/ns2/named.wildcard3.conf CONF-C 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns2/root.hint ZONE 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/example.db ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/named1.conf.in CONF-C 2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/named2.conf.in CONF-C 2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/policy.db ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns3/root.db ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns4/child.example.db ZONE 2016,2018,2019
./bin/tests/system/rpzrecurse/ns4/named.conf.in CONF-C 2016,2018,2019
./bin/tests/system/rpzrecurse/prereq.sh SH 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/setup.sh SH 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/testgen.pl PERL 2015,2016,2018,2019
./bin/tests/system/rpzrecurse/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/rrchecker/classlist.good X 2013,2018,2019
./bin/tests/system/rrchecker/clean.sh SH 2013,2014,2016,2017,2018,2019
./bin/tests/system/rrchecker/privatelist.good X 2013,2018,2019
./bin/tests/system/rrchecker/tests.sh SH 2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rrchecker/typelist.good X 2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/rrl/broken.conf CONF-C 2016,2018,2019
./bin/tests/system/rrl/clean.sh SH 2012,2013,2014,2016,2018,2019
./bin/tests/system/rrl/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrl/ns1/root.db ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rrl/ns2/hints ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rrl/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrl/ns2/tld2.db ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rrl/ns3/hints ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rrl/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrl/ns3/tld3.db ZONE 2012,2013,2016,2018,2019
./bin/tests/system/rrl/ns4/hints ZONE 2016,2018,2019
./bin/tests/system/rrl/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrl/ns4/tld4.db ZONE 2016,2018,2019
./bin/tests/system/rrl/setup.sh SH 2012,2013,2016,2018,2019
./bin/tests/system/rrl/tests.sh SH 2012,2013,2015,2016,2018,2019
./bin/tests/system/rrsetorder/clean.sh SH 2006,2007,2008,2011,2012,2014,2016,2018,2019
./bin/tests/system/rrsetorder/dig.out.fixed.good X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good1 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good10 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good11 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good12 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good13 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good14 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good15 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good16 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good17 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good18 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good19 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good2 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good20 X 2006,2018,2019

./bin/tests/system/rrsetorder/dig.out.random.good21 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good22 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good23 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good24 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good3 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good4 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good5 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good6 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good7 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good8 X 2006,2018,2019
./bin/tests/system/rrsetorder/dig.out.random.good9 X 2006,2018,2019
./bin/tests/system/rrsetorder/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrsetorder/ns1/root.db ZONE 2006,2007,2012,2016,2018,2019
./bin/tests/system/rrsetorder/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrsetorder/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrsetorder/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/rrsetorder/setup.sh SH 2018,2019
./bin/tests/system/rrsetorder/tests.sh SH 2006,2007,2008,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/rsabigexponent/Makefile.in MAKE 2012,2014,2015,2016,2018,2019
./bin/tests/system/rsabigexponent/bigkey.c C 2012,2014,2015,2016,2018,2019
./bin/tests/system/rsabigexponent/clean.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/bad01.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/bad02.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/bad03.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/good01.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/good02.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/conf/good03.conf CONF-C 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/rsabigexponent/ns1/root.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/ns1/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.key X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.private X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.key X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.private X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/dsset-example.in X 2012,2018,2019
./bin/tests/system/rsabigexponent/ns2/example.db.bad ZONE 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/ns2/example.db.in ZONE 2012,2016,2018,2019
./bin/tests/system/rsabigexponent/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/rsabigexponent/ns2/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/rsabigexponent/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/rsabigexponent/tests.sh SH 2012,2016,2018,2019
./bin/tests/system/run.sh SH 2000,2001,2004,2007,2010,2012,2014,2015,2016,2017,2018,2019
./bin/tests/system/runall.sh SH 2000,2001,2004,2007,2010,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/runsequential.sh SH 2018,2019
./bin/tests/system/runtime/README TXT.BRIEF 2014,2016,2018,2019
./bin/tests/system/runtime/clean.sh SH 2014,2015,2016,2017,2018,2019

./bin/tests/system/runtime/ns2/named-alt1.conf.in CONF-C 2014,2016,2017,2018,2019
 ./bin/tests/system/runtime/ns2/named-alt2.conf.in CONF-C 2014,2016,2017,2018,2019
 ./bin/tests/system/runtime/ns2/named-alt3.conf.in CONF-C 2014,2016,2017,2018,2019
 ./bin/tests/system/runtime/ns2/named-alt4.conf.in CONF-C 2014,2016,2017,2018,2019
 ./bin/tests/system/runtime/ns2/named-alt5.conf.in CONF-C 2014,2016,2017,2018,2019
 ./bin/tests/system/runtime/ns2/named-alt6.conf.in CONF-C 2014,2016,2017,2018,2019
 ./bin/tests/system/runtime/ns2/named1.conf.in CONF-C 2014,2016,2017,2018,2019
 ./bin/tests/system/runtime/setup.sh SH 2015,2016,2017,2018,2019
 ./bin/tests/system/runtime/tests.sh SH 2014,2015,2016,2017,2018,2019
 ./bin/tests/system/send.pl PERL 2001,2004,2007,2011,2012,2016,2018,2019
 ./bin/tests/system/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019
 ./bin/tests/system/sfcache/README TXT.BRIEF 2014,2016,2018,2019
 ./bin/tests/system/sfcache/clean.sh SH 2014,2015,2016,2018,2019
 ./bin/tests/system/sfcache/ns1/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/sfcache/ns1/root.db.in ZONE 2014,2016,2018,2019
 ./bin/tests/system/sfcache/ns1/sign.sh SH 2014,2016,2018,2019
 ./bin/tests/system/sfcache/ns2/example.db.in ZONE 2014,2016,2018,2019
 ./bin/tests/system/sfcache/ns2/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/sfcache/ns2/sign.sh SH 2014,2016,2018,2019
 ./bin/tests/system/sfcache/ns5/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/sfcache/ns5/trusted.conf.bad CONF-C 2014,2016,2018,2019
 ./bin/tests/system/sfcache/prereq.sh SH 2014,2016,2018,2019
 ./bin/tests/system/sfcache/setup.sh SH 2014,2016,2018,2019
 ./bin/tests/system/sfcache/tests.sh SH 2014,2016,2018,2019
 ./bin/tests/system/smartsign/child.db ZONE 2010,2016,2018,2019
 ./bin/tests/system/smartsign/clean.sh SH 2010,2012,2014,2016,2018,2019
 ./bin/tests/system/smartsign/parent.db ZONE 2010,2016,2018,2019
 ./bin/tests/system/smartsign/prereq.sh SH 2010,2012,2014,2016,2018,2019
 ./bin/tests/system/smartsign/setup.sh SH 2010,2012,2014,2016,2018,2019
 ./bin/tests/system/smartsign/tests.sh SH 2010,2011,2012,2014,2016,2017,2018,2019
 ./bin/tests/system/sortlist/clean.sh SH 2000,2001,2004,2007,2009,2012,2014,2015,2016,2018,2019
 ./bin/tests/system/sortlist/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019
 ./bin/tests/system/sortlist/ns1/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/sortlist/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
 ./bin/tests/system/sortlist/setup.sh SH 2018,2019
 ./bin/tests/system/sortlist/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
 ./bin/tests/system/spf/clean.sh SH 2013,2014,2016,2018,2019
 ./bin/tests/system/spf/ns1/named.conf.in CONF-C 2018,2019
 ./bin/tests/system/spf/ns1/spf.db ZONE 2013,2016,2018,2019
 ./bin/tests/system/spf/setup.sh SH 2018,2019
 ./bin/tests/system/spf/tests.sh SH 2013,2014,2016,2018,2019
 ./bin/tests/system/start.pl SH
 2001,2004,2005,2006,2007,2008,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
 ./bin/tests/system/start.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
 ./bin/tests/system/staticstub/clean.sh SH 2010,2012,2014,2015,2016,2018,2019
 ./bin/tests/system/staticstub/conf/bad01.conf CONF-C 2010,2016,2018,2019
 ./bin/tests/system/staticstub/conf/bad02.conf CONF-C 2010,2016,2018,2019
 ./bin/tests/system/staticstub/conf/bad03.conf CONF-C 2010,2016,2018,2019

./bin/tests/system/staticstub/conf/bad04.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad05.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad06.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad07.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad08.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad09.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad10.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/bad11.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good01.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good02.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good03.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good04.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/conf/good05.conf CONF-C 2010,2016,2018,2019
./bin/tests/system/staticstub/knowngood.dig.out.rec X 2010,2013,2018,2019
./bin/tests/system/staticstub/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/staticstub/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns2/named.conf.in CONF-C 2010,2015,2016,2018,2019
./bin/tests/system/staticstub/ns3/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns3/example.org.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns3/named.conf.in CONF-C 2010,2013,2015,2016,2018,2019
./bin/tests/system/staticstub/ns3/sign.sh SH 2010,2012,2014,2015,2016,2018,2019
./bin/tests/system/staticstub/ns3/undelegated.db.in ZONE 2015,2016,2018,2019
./bin/tests/system/staticstub/ns4/example.com.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns4/example.info.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns4/example.org.db ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/staticstub/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/staticstub/ns4/sub.example.db.in ZONE 2010,2016,2018,2019
./bin/tests/system/staticstub/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/staticstub/setup.sh SH 2010,2012,2014,2016,2018,2019
./bin/tests/system/staticstub/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019
./bin/tests/system/statistics/ans4/ans.pl PERL 2012,2016,2018,2019
./bin/tests/system/statistics/clean.sh SH 2012,2014,2015,2016,2018,2019
./bin/tests/system/statistics/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/statistics/ns1/root.db ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/ns1/zone.db ZONE 2015,2016,2018,2019
./bin/tests/system/statistics/ns2/example.db ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/ns2/internal.db ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/statistics/ns3/internal.db ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/statistics/ns3/root.hint ZONE 2012,2016,2018,2019
./bin/tests/system/statistics/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/statistics/setup.sh SH 2018,2019
./bin/tests/system/statistics/tests.sh SH 2012,2015,2016,2018,2019
./bin/tests/system/statschannel/clean.sh SH 2015,2016,2018,2019
./bin/tests/system/statschannel/fetch.pl PERL 2015,2016,2018,2019
./bin/tests/system/statschannel/ns2/example.db ZONE 2015,2016,2018,2019

./bin/tests/system/statschannel/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/statschannel/prereq.sh SH 2015,2016,2018,2019
./bin/tests/system/statschannel/server-json.pl PERL 2015,2016,2017,2018,2019
./bin/tests/system/statschannel/server-xml.pl PERL 2015,2016,2017,2018,2019
./bin/tests/system/statschannel/setup.sh SH 2018,2019
./bin/tests/system/statschannel/tests.sh SH 2015,2016,2018,2019
./bin/tests/system/statschannel/traffic-json.pl PERL 2015,2016,2017,2018,2019
./bin/tests/system/statschannel/traffic-xml.pl PERL 2015,2016,2017,2018,2019
./bin/tests/system/statschannel/traffic.expect.1 X 2015,2018,2019
./bin/tests/system/statschannel/traffic.expect.2 X 2015,2018,2019
./bin/tests/system/statschannel/traffic.expect.4 X 2015,2018,2019
./bin/tests/system/statschannel/traffic.expect.5 X 2015,2016,2018,2019
./bin/tests/system/statschannel/traffic.expect.6 X 2015,2016,2018,2019
./bin/tests/system/stop.pl SH 2001,2004,2005,2006,2007,2012,2016,2018,2019
./bin/tests/system/stop.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/stopall.sh SH 2018,2019
./bin/tests/system/stress/clean.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/stress/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stress/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stress/ns3/named.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019
./bin/tests/system/stress/ns4/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stress/prereq.sh SH 2015,2016,2018,2019
./bin/tests/system/stress/setup.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/stress/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/stress/tests.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/stress/update.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/stub/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/stub/knowngood.dig.out.norec X 2000,2001,2018,2019
./bin/tests/system/stub/knowngood.dig.out.rec X 2000,2001,2013,2018,2019
./bin/tests/system/stub/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/stub/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stub/ns2/child.example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stub/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/stub/ns3/example.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/stub/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/stub/setup.sh SH 2018,2019
./bin/tests/system/stub/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019
./bin/tests/system/tcp/clean.sh SH 2014,2016,2018,2019
./bin/tests/system/tcp/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/tcp/ns1/root.db ZONE 2014,2016,2018,2019
./bin/tests/system/tcp/ns2/example.db ZONE 2014,2016,2018,2019
./bin/tests/system/tcp/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/tcp/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/tcp/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/tcp/setup.sh SH 2018,2019
./bin/tests/system/tcp/tests.sh SH 2014,2016,2018,2019
./bin/tests/system/testcrypto.sh SH 2014,2016,2017,2018,2019
./bin/tests/system/testsock.pl PERL 2000,2001,2004,2007,2010,2011,2012,2013,2016,2018,2019

./bin/tests/system/testsock6.pl PERL 2010,2012,2014,2016,2018,2019
./bin/tests/system/testsummary.sh SH 2018,2019
./bin/tests/system/tkey/Makefile.in MAKE 2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019
./bin/tests/system/tkey/clean.sh SH 2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/tkey/keycreate.c C 2001,2004,2005,2007,2009,2011,2012,2014,2015,2016,2018,2019
./bin/tests/system/tkey/keydelete.c C 2001,2004,2005,2007,2009,2010,2011,2014,2015,2016,2018,2019
./bin/tests/system/tkey/ns1/example.db ZONE 2013,2016,2018,2019
./bin/tests/system/tkey/ns1/named.conf.in CONF-C 2001,2004,2007,2009,2011,2013,2014,2016,2018,2019
./bin/tests/system/tkey/ns1/setup.sh SH 2001,2004,2007,2009,2012,2014,2016,2018,2019
./bin/tests/system/tkey/prereq.sh SH 2001,2004,2006,2007,2009,2012,2014,2016,2018,2019
./bin/tests/system/tkey/setup.sh SH 2001,2004,2007,2009,2012,2013,2014,2016,2018,2019
./bin/tests/system/tkey/tests.sh SH 2001,2004,2007,2009,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/tsig/clean.sh SH 2005,2006,2007,2012,2014,2016,2018,2019
./bin/tests/system/tsig/ns1/example.db ZONE 2005,2006,2007,2009,2012,2016,2018,2019
./bin/tests/system/tsig/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/tsig/setup.sh SH 2016,2018,2019
./bin/tests/system/tsig/tests.sh SH 2005,2006,2007,2011,2012,2016,2018,2019
./bin/tests/system/tsiggss/authsock.pl PERL 2011,2012,2016,2018,2019
./bin/tests/system/tsiggss/clean.sh SH 2010,2011,2014,2015,2016,2018,2019
./bin/tests/system/tsiggss/ns1/administrator.ccache X 2010,2018,2019
./bin/tests/system/tsiggss/ns1/dns.keytab X 2010,2018,2019
./bin/tests/system/tsiggss/ns1/example.nil.db.in X 2011,2018,2019
./bin/tests/system/tsiggss/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/tsiggss/ns1/testdenied.ccache X 2010,2018,2019
./bin/tests/system/tsiggss/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/tsiggss/setup.sh SH 2010,2011,2012,2014,2016,2018,2019
./bin/tests/system/tsiggss/tests.sh SH 2010,2011,2014,2016,2017,2018,2019
./bin/tests/system/unknown/clean.sh SH 2000,2001,2004,2007,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/unknown/large.out X 2012,2018,2019
./bin/tests/system/unknown/ns1/broken1.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/broken2.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/broken3.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/broken4.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/broken5.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/class10.hints ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/example-class10.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/unknown/ns1/example-in.db ZONE 2000,2001,2004,2007,2011,2012,2016,2018,2019
./bin/tests/system/unknown/ns1/large.db ZONE 2012,2016,2018,2019
./bin/tests/system/unknown/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/unknown/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/unknown/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/unknown/ns3/sign.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/unknown/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/unknown/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/unknown/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019
./bin/tests/system/unknown/zones/nan.bad ZONE 2013,2016,2018,2019
./bin/tests/system/upforwd/ans4/ans.pl PERL 2011,2012,2016,2018,2019
./bin/tests/system/upforwd/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019

./bin/tests/system/upforwd/knowngood.after1 X 2000,2001,2018,2019
./bin/tests/system/upforwd/knowngood.after2 X 2000,2001,2018,2019
./bin/tests/system/upforwd/knowngood.before X 2000,2001,2018,2019
./bin/tests/system/upforwd/knowngood.ns2.before X 2000,2001,2018,2019
./bin/tests/system/upforwd/ns1/example1.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/upforwd/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/upforwd/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/upforwd/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/upforwd/ns3/nomaster.db ZONE 2011,2016,2018,2019
./bin/tests/system/upforwd/prereq.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/upforwd/setup.sh SH 2000,2001,2004,2007,2011,2012,2014,2016,2018,2019
./bin/tests/system/upforwd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019
./bin/tests/system/verify/clean.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/verify/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/verify/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/verify/tests.sh SH 2012,2013,2016,2017,2018,2019
./bin/tests/system/verify/zones/genzones.sh SH 2012,2013,2014,2016,2018,2019
./bin/tests/system/verify/zones/unsigned.db ZONE 2012,2016,2018,2019
./bin/tests/system/views/clean.sh SH 2000,2001,2004,2005,2007,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/views/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns2/1.10.in-addr.arpa.db ZONE 2015,2016,2018,2019
./bin/tests/system/views/ns2/clone.db ZONE 2013,2016,2018,2019
./bin/tests/system/views/ns2/example1.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns2/example2.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns2/external/inline.db ZONE 2014,2016,2018,2019
./bin/tests/system/views/ns2/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns2/internal/inline.db ZONE 2014,2016,2018,2019
./bin/tests/system/views/ns2/named1.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns2/named2.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns3/child.clone.db ZONE 2013,2016,2018,2019
./bin/tests/system/views/ns3/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/views/ns3/named1.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns3/named2.conf.in CONF-C 2018,2019
./bin/tests/system/views/ns5/child.clone.db ZONE 2013,2016,2018,2019
./bin/tests/system/views/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/views/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019
./bin/tests/system/views/tests.sh SH 2000,2001,2004,2007,2012,2013,2014,2016,2018,2019
./bin/tests/system/wildcard/clean.sh SH 2012,2013,2014,2016,2018,2019
./bin/tests/system/wildcard/ns1/dlv.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/named.conf.in CONF-C 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/nsec.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/nsec3.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/private.nsec.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/private.nsec3.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/root.db.in ZONE 2012,2013,2016,2018,2019
./bin/tests/system/wildcard/ns1/sign.sh SH 2012,2013,2014,2016,2018,2019
./bin/tests/system/wildcard/ns2/hints ZONE 2012,2016,2018,2019

./bin/tests/system/wildcard/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/wildcard/ns3/hints ZONE 2012,2016,2018,2019
./bin/tests/system/wildcard/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/wildcard/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/wildcard/ns5/hints ZONE 2013,2016,2018,2019
./bin/tests/system/wildcard/ns5/named.conf.in CONF-C 2018,2019
./bin/tests/system/wildcard/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/wildcard/setup.sh SH 2012,2014,2016,2018,2019
./bin/tests/system/wildcard/tests.sh SH 2012,2013,2016,2018,2019
./bin/tests/system/win32/bigkey.dsp.in X 2016,2018,2019
./bin/tests/system/win32/bigkey.dsw X 2016,2018,2019
./bin/tests/system/win32/bigkey.mak.in X 2016,2018,2019
./bin/tests/system/win32/bigkey.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/bigkey.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/bigkey.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/feature-test.dsp.in X 2016,2018,2019
./bin/tests/system/win32/feature-test.dsw X 2016,2018,2019
./bin/tests/system/win32/feature-test.mak.in X 2016,2018,2019
./bin/tests/system/win32/feature-test.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/feature-test.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/feature-test.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/gencheck.dsp.in X 2016,2018,2019
./bin/tests/system/win32/gencheck.dsw X 2016,2018,2019
./bin/tests/system/win32/gencheck.mak.in X 2016,2018,2019
./bin/tests/system/win32/gencheck.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/gencheck.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/gencheck.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/keycreate.dsp.in X 2016,2018,2019
./bin/tests/system/win32/keycreate.dsw X 2016,2018,2019
./bin/tests/system/win32/keycreate.mak.in X 2016,2018,2019
./bin/tests/system/win32/keycreate.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/keycreate.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/keycreate.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/keydelete.dsp.in X 2016,2018,2019
./bin/tests/system/win32/keydelete.dsw X 2016,2018,2019
./bin/tests/system/win32/keydelete.mak.in X 2016,2018,2019
./bin/tests/system/win32/keydelete.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/keydelete.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/keydelete.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/lwtest.dsp.in X 2016,2018,2019
./bin/tests/system/win32/lwtest.dsw X 2016,2018,2019
./bin/tests/system/win32/lwtest.mak.in X 2016,2018,2019
./bin/tests/system/win32/lwtest.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/lwtest.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/lwtest.vcxproj.user X 2016,2018,2019
./bin/tests/system/win32/pipequeries.dsp.in X 2016,2018,2019
./bin/tests/system/win32/pipequeries.dsw X 2016,2018,2019
./bin/tests/system/win32/pipequeries.mak.in X 2016,2018,2019

./bin/tests/system/win32/pipequeries.vcxproj.filters.in X 2016,2018,2019
./bin/tests/system/win32/pipequeries.vcxproj.in X 2016,2017,2018,2019
./bin/tests/system/win32/pipequeries.vcxproj.user X 2016,2018,2019
./bin/tests/system/xfer/ans5/badkeydata X 2011,2018,2019
./bin/tests/system/xfer/ans5/goodaxfr X 2011,2018,2019
./bin/tests/system/xfer/ans5/partial X 2011,2018,2019
./bin/tests/system/xfer/ans5/unknownkey X 2011,2018,2019
./bin/tests/system/xfer/ans5/unsigned X 2011,2018,2019
./bin/tests/system/xfer/ans5/wrongkey X 2011,2018,2019
./bin/tests/system/xfer/clean.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/xfer/dig1.good X 2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/xfer/dig2.good X 2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tests/system/xfer/knowngood.mapped X 2016,2018,2019
./bin/tests/system/xfer/ns1/axfr-too-big.db ZONE 2016,2018,2019
./bin/tests/system/xfer/ns1/ixfr-too-big.db.in ZONE 2016,2018,2019
./bin/tests/system/xfer/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/xfer/ns2/mapped.db.in ZONE 2016,2018,2019
./bin/tests/system/xfer/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns2/slave.db.in ZONE 2013,2016,2018,2019
./bin/tests/system/xfer/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns4/named.conf.base CONF-C 2011,2013,2016,2018,2019
./bin/tests/system/xfer/ns4/root.db.in ZONE 2011,2016,2018,2019
./bin/tests/system/xfer/ns6/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns7/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/ns8/example.db ZONE 2015,2016,2018,2019
./bin/tests/system/xfer/ns8/named.conf.in CONF-C 2018,2019
./bin/tests/system/xfer/prereq.sh SH 2011,2012,2014,2016,2018,2019
./bin/tests/system/xfer/setup.sh SH 2001,2002,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/xfer/tests.sh SH 2000,2001,2004,2005,2007,2011,2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/xferquota/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/xferquota/ns1/changing1.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/xferquota/ns1/changing2.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/xferquota/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/xferquota/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019
./bin/tests/system/xferquota/ns2/example.db ZONE 2000,2001,2002,2003,2004,2007,2009,2016,2018,2019
./bin/tests/system/xferquota/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/xferquota/setup.pl PERL 2000,2001,2004,2007,2011,2012,2016,2018,2019
./bin/tests/system/xferquota/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/xferquota/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/system/zero/ans5/ans.pl PERL 2016,2018,2019
./bin/tests/system/zero/clean.sh SH 2013,2014,2015,2016,2018,2019
./bin/tests/system/zero/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/zero/ns1/root.db ZONE 2013,2016,2018,2019
./bin/tests/system/zero/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/zero/ns2/tld.db ZONE 2016,2018,2019
./bin/tests/system/zero/ns3/named.conf.in CONF-C 2018,2019
./bin/tests/system/zero/ns3/root.hint ZONE 2013,2016,2018,2019

./bin/tests/system/zero/ns4/named.conf.in CONF-C 2018,2019
./bin/tests/system/zero/ns4/one.tld.db ZONE 2016,2018,2019
./bin/tests/system/zero/prereq.sh SH 2018,2019
./bin/tests/system/zero/setup.sh SH 2013,2014,2016,2018,2019
./bin/tests/system/zero/tests.sh SH 2013,2016,2017,2018,2019
./bin/tests/system/zonechecks/a.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/aaaa.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/bigserial.db ZONE 2015,2016,2018,2019
./bin/tests/system/zonechecks/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019
./bin/tests/system/zonechecks/cname.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/dname.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/noaddress.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/ns1/named.conf.in CONF-C 2018,2019
./bin/tests/system/zonechecks/ns2/named.conf.in CONF-C 2018,2019
./bin/tests/system/zonechecks/nxdomain.db ZONE 2004,2007,2016,2018,2019
./bin/tests/system/zonechecks/prereq.sh SH 2014,2016,2018,2019
./bin/tests/system/zonechecks/setup.sh SH 2012,2013,2014,2015,2016,2018,2019
./bin/tests/system/zonechecks/tests.sh SH 2004,2007,2009,2012,2013,2014,2015,2016,2018,2019
./bin/tests/testdata/wire/wire_test.data X 1999,2000,2001,2018,2019
./bin/tests/testdata/wire/wire_test.data2 X 1999,2000,2001,2018,2019
./bin/tests/testdata/wire/wire_test.data3 X 1999,2000,2001,2018,2019
./bin/tests/testdata/wire/wire_test.data4 X 1999,2000,2001,2018,2019
./bin/tests/virtual-time/Makefile.in MAKE 2010,2012,2016,2018,2019
./bin/tests/virtual-time/README TXT.BRIEF 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/clean.sh SH 2010,2012,2015,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/sign.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/ns1/wrap.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/setup.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-ksk/tests.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/clean.sh SH 2010,2012,2015,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/sign.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/ns1/wrap.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/setup.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/autosign-zsk/tests.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/cleanall.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/common/controls.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/common/rndc.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/common/root.hint ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/conf.sh.in SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/run.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/runall.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/setup.sh SH 2010,2012,2016,2018,2019

./bin/tests/virtual-time/slave/clean.sh SH 2010,2012,2015,2016,2018,2019
./bin/tests/virtual-time/slave/ns1/example.db.in ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/slave/ns1/named.conf CONF-C 2010,2016,2018,2019
./bin/tests/virtual-time/slave/ns1/root.db ZONE 2010,2016,2018,2019
./bin/tests/virtual-time/slave/ns1/wrap.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/slave/setup.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/slave/tests.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/start.pl PERL 2010,2012,2015,2016,2018,2019
./bin/tests/virtual-time/start.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/stop.pl PERL 2010,2012,2016,2018,2019
./bin/tests/virtual-time/stop.sh SH 2010,2012,2016,2018,2019
./bin/tests/virtual-time/testsock.pl PERL 2010,2012,2016,2018,2019
./bin/tests/virtual-time/vtwrapper.c C 2010,2016,2018,2019
./bin/tests/win32/backtrace_test.dsp.in X 2013,2018,2019
./bin/tests/win32/backtrace_test.dsw X 2013,2018,2019
./bin/tests/win32/backtrace_test.mak.in X 2013,2018,2019
./bin/tests/win32/backtrace_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/backtrace_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
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./bin/tests/win32/inter_test.dsp.in X 2013,2018,2019
./bin/tests/win32/inter_test.dsw X 2013,2018,2019
./bin/tests/win32/inter_test.mak.in X 2013,2018,2019
./bin/tests/win32/inter_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/inter_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/inter_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/makejournal.dsp.in X 2016,2018,2019
./bin/tests/win32/makejournal.dsw X 2016,2018,2019
./bin/tests/win32/makejournal.mak.in X 2016,2018,2019
./bin/tests/win32/makejournal.vcxproj.filters.in X 2016,2018,2019
./bin/tests/win32/makejournal.vcxproj.in X 2016,2017,2018,2019
./bin/tests/win32/makejournal.vcxproj.user X 2016,2018,2019
./bin/tests/win32/rwlock_test.dsp.in X 2013,2018,2019
./bin/tests/win32/rwlock_test.dsw X 2013,2018,2019
./bin/tests/win32/rwlock_test.mak.in X 2013,2018,2019
./bin/tests/win32/rwlock_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/rwlock_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/rwlock_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/shutdown_test.dsp.in X 2013,2018,2019
./bin/tests/win32/shutdown_test.dsw X 2013,2018,2019
./bin/tests/win32/shutdown_test.mak.in X 2013,2018,2019
./bin/tests/win32/shutdown_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/shutdown_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/shutdown_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/sock_test.dsp.in X 2013,2018,2019
./bin/tests/win32/sock_test.dsw X 2013,2018,2019
./bin/tests/win32/sock_test.mak.in X 2013,2018,2019
./bin/tests/win32/sock_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/sock_test.vcxproj.in X 2013,2015,2016,2017,2018,2019

./bin/tests/win32/sock_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/task_test.dsp.in X 2013,2018,2019
./bin/tests/win32/task_test.dsw X 2013,2018,2019
./bin/tests/win32/task_test.mak.in X 2013,2018,2019
./bin/tests/win32/task_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/task_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/task_test.vcxproj.user X 2013,2018,2019
./bin/tests/win32/timer_test.dsp.in X 2013,2018,2019
./bin/tests/win32/timer_test.dsw X 2013,2018,2019
./bin/tests/win32/timer_test.mak.in X 2013,2018,2019
./bin/tests/win32/timer_test.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tests/win32/timer_test.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tests/win32/timer_test.vcxproj.user X 2013,2018,2019
./bin/tests/wire_test.c C 1999,2000,2001,2004,2005,2007,2015,2016,2018,2019
./bin/tools/Makefile.in MAKE 2009,2010,2012,2013,2014,2015,2016,2017,2018,2019
./bin/tools/arpaname.1 MAN DOCBOOK
./bin/tools/arpaname.c C 2009,2015,2016,2018,2019
./bin/tools/arpaname.docbook SGML 2009,2014,2015,2016,2018,2019
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./bin/tools/dnstap-read.1 MAN DOCBOOK
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./bin/tools/dnstap-read.docbook SGML 2015,2016,2018,2019
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./bin/tools/genrandom.8 MAN DOCBOOK
./bin/tools/genrandom.c C 2000,2001,2002,2003,2004,2005,2007,2009,2010,2012,2014,2016,2018,2019
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./bin/tools/isc-hmac-fixup.c C 2010,2014,2015,2016,2018,2019
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./bin/tools/named-journalprint.8 MAN DOCBOOK
./bin/tools/named-journalprint.c C 2000,2001,2004,2005,2006,2007,2008,2009,2015,2016,2018,2019
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./bin/tools/named-nzd2nzf.8 MAN DOCBOOK
./bin/tools/named-nzd2nzf.c C 2016,2017,2018,2019
./bin/tools/named-nzd2nzf.docbook SGML 2016,2018,2019
./bin/tools/named-nzd2nzf.html HTML DOCBOOK
./bin/tools/named-rrchecker.1 MAN DOCBOOK
./bin/tools/named-rrchecker.c C 2013,2015,2016,2017,2018,2019
./bin/tools/named-rrchecker.docbook SGML 2013,2014,2015,2016,2018,2019
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./bin/tools/nsec3hash.8 MAN DOCBOOK

./bin/tools/nsec3hash.c C 2006,2008,2009,2011,2014,2016,2018,2019
./bin/tools/nsec3hash.docbook SGML 2009,2014,2015,2016,2018,2019
./bin/tools/nsec3hash.html HTML DOCBOOK
./bin/tools/win32/arpaname.dsp.in X 2009,2013,2018,2019
./bin/tools/win32/arpaname.dsw X 2009,2018,2019
./bin/tools/win32/arpaname.mak.in X 2009,2013,2018,2019
./bin/tools/win32/arpaname.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tools/win32/arpaname.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tools/win32/arpaname.vcxproj.user X 2013,2018,2019
./bin/tools/win32/genrandom.dsp.in X 2009,2013,2018,2019
./bin/tools/win32/genrandom.dsw X 2009,2018,2019
./bin/tools/win32/genrandom.mak.in X 2009,2013,2018,2019
./bin/tools/win32/genrandom.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tools/win32/genrandom.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tools/win32/genrandom.vcxproj.user X 2013,2018,2019
./bin/tools/win32/ischmacfixup.dsp.in X 2010,2013,2014,2016,2018,2019
./bin/tools/win32/ischmacfixup.dsw X 2010,2018,2019
./bin/tools/win32/ischmacfixup.mak.in X 2010,2013,2014,2016,2018,2019
./bin/tools/win32/ischmacfixup.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tools/win32/ischmacfixup.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019
./bin/tools/win32/ischmacfixup.vcxproj.user X 2013,2018,2019
./bin/tools/win32/journalprint.dsp.in X 2009,2013,2018,2019
./bin/tools/win32/journalprint.dsw X 2009,2018,2019
./bin/tools/win32/journalprint.mak.in X 2009,2010,2013,2018,2019
./bin/tools/win32/journalprint.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tools/win32/journalprint.vcxproj.in X 2013,2015,2016,2017,2018,2019
./bin/tools/win32/journalprint.vcxproj.user X 2013,2018,2019
./bin/tools/win32/mdig.dsp.in X 2015,2016,2018,2019
./bin/tools/win32/mdig.dsw X 2015,2018,2019
./bin/tools/win32/mdig.mak.in X 2015,2016,2018,2019
./bin/tools/win32/mdig.vcxproj.filters.in X 2015,2018,2019
./bin/tools/win32/mdig.vcxproj.in X 2015,2016,2017,2018,2019
./bin/tools/win32/mdig.vcxproj.user X 2015,2018,2019
./bin/tools/win32/nsec3hash.dsp.in X 2009,2013,2014,2016,2018,2019
./bin/tools/win32/nsec3hash.dsw X 2009,2018,2019
./bin/tools/win32/nsec3hash.mak.in X 2009,2013,2014,2016,2018,2019
./bin/tools/win32/nsec3hash.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tools/win32/nsec3hash.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019
./bin/tools/win32/nsec3hash.vcxproj.user X 2013,2018,2019
./bin/tools/win32/rrchecker.dsp.in X 2013,2018,2019
./bin/tools/win32/rrchecker.dsw X 2013,2018,2019
./bin/tools/win32/rrchecker.mak.in X 2013,2018,2019
./bin/tools/win32/rrchecker.vcxproj.filters.in X 2013,2015,2018,2019
./bin/tools/win32/rrchecker.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019
./bin/tools/win32/rrchecker.vcxproj.user X 2013,2018,2019
./bin/win32/BINDInstall/AccountInfo.cpp C.PORTION 2001,2002,2004,2007,2009,2013,2016,2017,2018,2019
./bin/win32/BINDInstall/AccountInfo.h C 2001,2004,2007,2016,2018,2019
./bin/win32/BINDInstall/BINDInstall.cpp C.PORTION 2001,2004,2007,2009,2016,2018,2019

./bin/win32/BINDInstall/BINDInstall.dsp.in X 2001,2007,2009,2013,2014,2018,2019
 ./bin/win32/BINDInstall/BINDInstall.dsw X 2001,2018,2019
 ./bin/win32/BINDInstall/BINDInstall.h C.PORION 2001,2004,2007,2016,2018,2019
 ./bin/win32/BINDInstall/BINDInstall.mak.in X 2001,2006,2007,2009,2013,2014,2018,2019
 ./bin/win32/BINDInstall/BINDInstall.rc X 2001,2005,2009,2014,2018,2019
 ./bin/win32/BINDInstall/BINDInstall.vcxproj.filters.in X 2013,2015,2018,2019
 ./bin/win32/BINDInstall/BINDInstall.vcxproj.in X 2013,2014,2015,2016,2018,2019
 ./bin/win32/BINDInstall/BINDInstall.vcxproj.user X 2013,2018,2019
 ./bin/win32/BINDInstall/BINDInstallDlg.cpp C.PORION
 2001,2003,2004,2005,2006,2007,2008,2009,2010,2013,2014,2015,2016,2017,2018,2019
 ./bin/win32/BINDInstall/BINDInstallDlg.h C.PORION 2001,2004,2007,2009,2015,2016,2017,2018,2019
 ./bin/win32/BINDInstall/DirBrowse.cpp C.PORION 2001,2004,2007,2016,2018,2019
 ./bin/win32/BINDInstall/DirBrowse.h C.PORION 2001,2004,2007,2016,2018,2019
 ./bin/win32/BINDInstall/StdAfx.cpp X 2001,2018,2019
 ./bin/win32/BINDInstall/StdAfx.h X 2001,2006,2011,2013,2018,2019
 ./bin/win32/BINDInstall/VersionInfo.cpp X 2001,2008,2015,2017,2018,2019
 ./bin/win32/BINDInstall/VersionInfo.h X 2001,2018,2019
 ./bin/win32/BINDInstall/res/BINDInstall.ico X 2001,2018,2019
 ./bin/win32/BINDInstall/res/BINDInstall.rc2 X 2001,2018,2019
 ./bin/win32/BINDInstall/resource.h X 2001,2005,2009,2018,2019
 ./bind.keys X 2009,2010,2011,2017,2018,2019
 ./bind.keys.h X 2009,2010,2011,2012,2014,2017,2018,2019
 ./config.guess X 1998,1999,2000,2001,2004,2009,2013,2018,2019
 ./config.h.in X
 1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019
 ./config.h.win32 C 1999,2000,2001,2004,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019
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 ./conftools/perllib/dnsconf/DNSConf-macros.h C 2000,2001,2004,2007,2016,2018,2019
 ./conftools/perllib/dnsconf/DNSConf.i C 2000,2001,2004,2007,2016,2018,2019
 ./conftools/perllib/dnsconf/Makefile.PL PERL 2000,2001,2004,2007,2012,2016,2018,2019
 ./conftools/perllib/dnsconf/named1.conf CONF-C 2000,2001,2004,2007,2016,2018,2019
 ./conftools/perllib/dnsconf/test.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019
 ./contrib/README X 2014,2015,2016,2017,2018,2019
 ./contrib/dane/mkdane.sh X 2012,2018,2019
 ./contrib/dane/tlsa6698.pem X 2012,2018,2019
 ./contrib/dlz/bin/dlzbdb/Makefile.in X 2005,2007,2009,2011,2012,2015,2016,2018,2019
 ./contrib/dlz/bin/dlzbdb/dlzbdb.c X 2005,2016,2018,2019
 ./contrib/dlz/config.dlz.in X 2005,2006,2008,2010,2011,2014,2016,2017,2018,2019
 ./contrib/dlz/drivers/dlz_bdb_driver.c X 2005,2008,2010,2011,2012,2016,2018,2019
 ./contrib/dlz/drivers/dlz_bdbhpt_driver.c X 2005,2010,2011,2012,2016,2018,2019

./contrib/dlz/drivers/dlz_dlopen_driver.c X 2010,2011,2018,2019
./contrib/dlz/drivers/dlz_drivers.c X 2005,2010,2011,2018,2019
./contrib/dlz/drivers/dlz_filesystem_driver.c X 2005,2010,2011,2012,2016,2018,2019
./contrib/dlz/drivers/dlz_ldap_driver.c X 2005,2010,2011,2012,2016,2018,2019
./contrib/dlz/drivers/dlz_mysql_driver.c X 2005,2007,2009,2010,2011,2012,2016,2018,2019
./contrib/dlz/drivers/dlz_odbc_driver.c X 2005,2010,2011,2012,2014,2016,2018,2019
./contrib/dlz/drivers/dlz_postgres_driver.c X 2005,2007,2010,2011,2012,2014,2016,2018,2019
./contrib/dlz/drivers/dlz_stub_driver.c X 2005,2010,2011,2012,2016,2018,2019
./contrib/dlz/drivers/include/dlz/dlz_bdb_driver.h X 2005,2018,2019
./contrib/dlz/drivers/include/dlz/dlz_bdbhpt_driver.h X 2005,2018,2019
./contrib/dlz/drivers/include/dlz/dlz_dlopen_driver.h X 2010,2011,2018,2019
./contrib/dlz/drivers/include/dlz/dlz_drivers.h X 2005,2018,2019
./contrib/dlz/drivers/include/dlz/dlz_filesystem_driver.h X 2005,2018,2019
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./contrib/dlz/drivers/include/dlz/dlz_stub_driver.h X 2005,2018,2019
./contrib/dlz/drivers/include/dlz/sdlz_helper.h X 2005,2018,2019
./contrib/dlz/drivers/rules.in X 2005,2010,2018,2019
./contrib/dlz/drivers/sdlz_helper.c X 2005,2010,2011,2012,2016,2018,2019
./contrib/dlz/example/Makefile X 2010,2013,2018,2019
./contrib/dlz/example/README X 2011,2012,2013,2014,2018,2019
./contrib/dlz/example/dlz_example.c X 2010,2011,2012,2013,2014,2018,2019
./contrib/dlz/example/named.conf X 2011,2014,2018,2019
./contrib/dlz/example/win32/DLLMain.c X 2011,2016,2018,2019
./contrib/dlz/example/win32/dxdriver.def X 2011,2018,2019
./contrib/dlz/example/win32/dxdriver.dsp X 2018,2019
./contrib/dlz/example/win32/dxdriver.dsw X 2011,2018,2019
./contrib/dlz/example/win32/dxdriver.mak X 2018,2019
./contrib/dlz/modules/bdbhpt/Makefile X 2013,2018,2019
./contrib/dlz/modules/bdbhpt/README.md X 2013,2015,2018,2019
./contrib/dlz/modules/bdbhpt/dlz_bdbhpt_dynamic.c X 2013,2015,2018,2019
./contrib/dlz/modules/bdbhpt/testing/README X 2015,2018,2019
./contrib/dlz/modules/bdbhpt/testing/bdbhpt-populate.pl X 2013,2018,2019
./contrib/dlz/modules/bdbhpt/testing/dns-data.txt X 2013,2015,2018,2019
./contrib/dlz/modules/bdbhpt/testing/named.conf X 2015,2018,2019
./contrib/dlz/modules/common/dlz_dbi.c X 2013,2014,2016,2018,2019
./contrib/dlz/modules/filesystem/Makefile X 2013,2018,2019
./contrib/dlz/modules/filesystem/dir.c X 2013,2018,2019
./contrib/dlz/modules/filesystem/dir.h X 2013,2018,2019
./contrib/dlz/modules/filesystem/dlz_filesystem_dynamic.c X 2013,2015,2016,2018,2019
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./unit/atf-src/atf-c++/detail/exceptions_test.cpp X 2011,2013,2018,2019
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./unit/atf-src/atf-c++/detail/fs.hpp X 2011,2013,2018,2019
./unit/atf-src/atf-c++/detail/fs_test.cpp X 2011,2013,2018,2019
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./unit/atf-src/atf-c++/detail/sanity.hpp X 2011,2013,2018,2019
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./unit/atf-src/atf-c++/pkg_config_test.sh X 2011,2013,2018,2019
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./unit/atf-src/test-programs/meta_data_test.sh X 2011,2013,2018,2019
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./unit/atf-src/test-programs/sh_helpers.sh X 2011,2013,2018,2019
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./win32utils/legacy/BuildSetup.bat.in BAT
2001,2002,2004,2005,2006,2007,2008,2009,2010,2012,2013,2014,2015,2016,2018,2019
./win32utils/legacy/makedefs.pl PERL 2001,2004,2007,2009,2012,2013,2014,2016,2018,2019
./win32utils/legacy/win32-build.txt TXT.BRIEF 2001,2002,2004,2005,2008,2009,2012,2013,2014,2016,2018,2019
./win32utils/readme1st.txt TXT.BRIEF 2001,2003,2004,2005,2007,2008,2009,2012,2013,2014,2015,2016,2018,2019

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