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\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 11th, 2022

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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## 1.6 libgpg-error 1.37

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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.)

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## 1.7 pythondialog 3.5.1

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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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#### Sphinx AUTHORS file

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Sphinx is written and maintained by Georg Brandl <georg@python.org>.

Substantial parts of the templates were written by Armin Ronacher <armin.ronacher@active-4.com>.

Other contributors, listed alphabetically, are:

- \* Andi Albrecht -- agogo theme
- \* Henrique Bastos -- SVG support for graphviz extension

- \* Daniel Bltman -- todo extension
- \* Etienne Desautels -- apidoc module
- \* Michael Droettboom -- inheritance\_diagram extension
- \* Charles Duffy -- original graphviz extension
- \* Kevin Dunn -- MathJax extension
- \* Josip Dzulonga -- coverage builder
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- \* Ezio Melotti -- collapsible sidebar JavaScript
- \* Daniel Neuhuser -- JavaScript domain, Python 3 support (GSOC)
- \* Christopher Perkins -- autosummary integration
- \* Benjamin Peterson -- unittests
- \* T. Powers -- HTML output improvements
- \* Stefan Seefeld -- toctree improvements
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- \* Pauli Virtanen -- autodoc improvements, autosummary extension
- \* Stefan van der Walt -- autosummary extension
- \* Thomas Waldmann -- apidoc module fixes
- \* John Waltman -- Texinfo builder
- \* Barry Warsaw -- setup command improvements
- \* Sebastian Wiesner -- image handling, distutils support
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Local Variables:

coding: utf-8  
fill-column: 70  
End:

## 1.8 gopacket 1.1.19

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## 1.9 libvmtools 11.2.5.26209

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## 1.10 make 4.3

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**1.12 golang-protobuf-extensions 1.0.2-  
0.20181231171920-c182affec369**

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# 1.14 modern-go-reflect2 1.0.2

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## 1.18 pyyaml 5.3.1

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## 1.23 python-certifi 2019.11.28

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: <http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
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Just configure this file as the SSLCACertificateFile.#

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## 1.24 shared-mime-info 1.15

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35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and

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# 1.26 x-sys 0.3.0

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## 1.29 nsqio-go-diskqueue 0.0.0-20210521141715-d95053def12d

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free

library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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



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

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

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

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:

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

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

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

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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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## 1.31 librelp 1.5.0

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Version 3, 29 June 2007

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

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## 1. Source Code.

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

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

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

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

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

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## 1.32 sed 4.8

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## 1.35 pcre 8.44

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## 1.37 xz 5.2.4

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## 1.38 python 3.8.13

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

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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## 1.40 libxcb 1.13.1

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## 1.41 bzip2 1.0.8

## 1.42 d-bus 1.12.20

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## 1.45 msgp 1.1.6

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```
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# 1.47 perl 5.30.1

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The End

## 1.48 mpfr 4.0.2

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Version 3, 29 June 2007

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Go support for Protocol Buffers - Google's data interchange format

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## 1.54 bc 1.07.1

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## 1.57 gawk 5.0.1

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Version 2, June 1991

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

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

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

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uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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## 1.58 go-sysconf 0.3.11

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## 1.60 libyamI 0.2.2

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## 1.61 libnsl 2.0.0

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Version 2.1, February 1999

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# 1.68 unzip 6.0

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---

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FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

---

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially

similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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*
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* from Apple Sample Code, but that you've made
* changes."
```

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The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

```
* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
```

- \*
  - \* Basic encoding and decoding of Macintosh files to the
  - \* MacBinary III spec.
- \* -----
- \* This source is copyrighted by Christopher Evans (cevens@poppybank.com)
- \* (available at ftp://ftp.lazerware.com/MacBinaryIII\_src\_C.sit
- \* homepage of Leonard Rosenthol leonardr@netcom.com)

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-----

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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## 1.69 mpclib 1.1.0

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**1.70 x-crypto 0.0.0-20200510-  
06a226fb4e3765ef3f48aa285**

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## 1.71 p-go-uuid-uuid 0.0.0-20160216163710-c55201b03606

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```
Paul Borman <borman@google.com>  
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## 1.72 findutils 4.7.0

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Version 3, 29 June 2007

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## 1.74 diffutils 3.7

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Version 3, 29 June 2007

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## 1.75 socat 1.7.3.4

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## 1.79 dmidecode 3.2

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## 1.80 libidn 1.35

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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

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-->

```
<!-- $Id$ -->
```

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

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

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '#10;'))"/>
    <xsl:text>#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '#10;')"/>
    <xsl:if test="translate($rest, '#9;#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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      License, v. 2.0. If a copy of the MPL was not distributed with this
      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
          <xsl:text> </xsl:text>
          <xsl:value-of select="holder"/>
          <xsl:value-of select="$isc.copyright.breakline"/>
          <xsl:text>#10;</xsl:text>
        </xsl:for-each>
      </xsl:with-param>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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## 1.87 ply 3.11

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# PLY (Python Lex-Yacc)                      Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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## Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.  
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

## How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

#### Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

## Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

## Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

## Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----  
# calc.py  
#  
# A simple calculator with variables.  
# -----
```

```
tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
)
```

```
# Tokens
```

```
t_PLUS = r'\+'  
t_MINUS = r'\-'  
t_TIMES = r'\*'  
t_DIVIDE = r'\/'  
t_EQUALS = r'='  
t_LPAREN = r'\('
```

```

t_RPAREN = r'\)'
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left', 'PLUS', 'MINUS'),
    ('left', 'TIMES', 'DIVIDE'),
    ('right', 'UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression'''
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]

```

```

elif p[2] == '*': p[0] = p[1] * p[3]
elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

```

## Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

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## 1.88 less 551

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

```
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```

```
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```
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```

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```
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```

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

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## 1.95 fuse 2.9.9

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## 1.97 mow-cli 0.0.0-20210219195023-

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## 1.98 pyasn1 0.4.8

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Metadata-Version: 1.2

Name: pyasn1

Version: 0.4.8

Summary: ASN.1 types and codecs

Home-page: <https://github.com/etingof/pyasn1>

Author: Ilya Etingof

Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)

Maintainer: Ilya Etingof <[etingof@gmail.com](mailto:etingof@gmail.com)>

License: BSD

Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

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## ASN.1 library for Python

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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)  
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

## Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
```
```

```

>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)

```



```
{'id': 123, 'room': 321, 'house': 0}
'''
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
'''
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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Found in path(s):

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/README.md

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

# License: <http://snmplabs.com/pyasn1/license.html>

Found in path(s):

- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test\_debug.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test\_encoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_constraint.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_namedval.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_opentype.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test\_integer.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_char.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/setup.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_tag.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test\_binary.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_useful.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/\_\_main\_\_.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test\_decoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test\_octets.py

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_univ.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/test_encoder.py

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## ASN.1 library for Python

```
=====
```

```

.. toctree::
   :maxdepth: 1

```

### Abstract Syntax Notation One (ASN.1)

<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)>\_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.org/project/pyasn1/>>\_ library implements ASN.1 support in pure-Python.

### What is ASN.1

```
-----
```

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>> or `FlatBuffers` <<https://google.github.io/flatbuffers/>>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)

- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

## ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

## Documentation

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```
.. toctree::  
    :maxdepth: 2
```

/pyasn1/contents

## Use case

-----

```
.. toctree::  
    :maxdepth: 2
```

/example-use-case

## Download & Install

-----

```
.. toctree::  
    :maxdepth: 2
```

/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
.. toctree::  
    :maxdepth: 1
```

/changelog

## License

-----

The PyASN1 software is distributed under 2-clause BSD License.

.. toctree::  
:maxdepth: 2

/license

## Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>` \_  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>` \_ at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>` \_  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` \_  
mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>` \_ by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` \_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards` <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` \_

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <[ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc](http://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc)>` \_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

## 1.99 libffi 3.3

### 1.99.1 Available under license :

libffi - Copyright (c) 1996-2019 Anthony Green, Red Hat, Inc and others.  
See source files for details.

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The libffi source distribution contains certain code that is not part of libffi, and is only used as tooling to assist with the building and testing of libffi. This includes the msvcc.sh script used to wrap the Microsoft compiler with GNU compatible command-line options, make\_sunver.pl, and the libffi test code distributed in the testsuite/libffi.bhaible directory. This code is distributed with libffi for the purpose of convenience only, and libffi is in no way derived from this code.

msvcc.sh and testsuite/libffi.bhaible are both distributed under the terms of the GNU GPL version 2, as below.

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Version 2, June 1991

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## Preamble

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## 1.103 rsyslog 8.2002.0

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## 1.104 libdevmapper 1.02.165

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## 1.110 patch 2.7.6

## 1.111 libmnl 1.0.4

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# 1.112 cryptography 2.8

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## 1.113 prompt-toolkit 2.0.10

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## 1.115 tcp-wrappers 7.6

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

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## 1.120 zip 3.0

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RECORD

Carriage\_Control carriage\_return

Format stream\_lf

# 1.121 e2fsprogs 1.45.7

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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)
```

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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Theodore Ts'o  
23-June-2007

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

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

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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/](http://tsx-11.mit.edu:/pub/linux/packages/ext2fs/)

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Gadi Oxman, August 1995

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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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## 1.122 nhooyr-io-websocket 1.8.7

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## 1.124 pciutils 3.6.4

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/\*

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```

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```
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```
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```

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```
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```

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## 1.129 bridgeutils 1.6

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```

```
<signature of Ty Coon>, 1 April 1989
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# 1.132 shim 14

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## 1.134 pycparser 2.20

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pycparser -- A C parser in Python

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## 1.136 ulikunitz-xz 0.5.10

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```

```
package main
```

```
import (  
    "bufio"  
    "bytes"  
    "flag"  
    "fmt"  
    "io"  
    "log"  
    "os"  
    "path/filepath"  
    "strings"  
)
```

```
const crUsageString = `xb copyright [options] <path>...`
```

The xb copyright command adds a copyright remark to all go files below path.

```
-h prints this message and exits
```

```
`
```

```
func crUsage(w io.Writer) {  
    fmt.Fprint(w, crUsageString)  
}
```

```
const copyrightText = `  
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```

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```
func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 {
            continue
        }
        if _, err = fmt.Fprintln(buf, "//", s); err != nil {
            panic(err)
        }
    }
    if err = scanner.Err(); err != nil {
        panic(err)
    }
    if _, err = fmt.Fprintln(buf); err != nil {
        panic(err)
    }
    return buf.String()
}
```

```
var goCopyright = goComment(copyrightText)
```

```
func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
```

```

    err = cerr
}
}()
out := bufio.NewWriter(dst)
fmt.Fprint(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
    line++
    txt := scanner.Text()
    if line == 1 && strings.Contains(txt, "Copyright") {
        del = true
        continue
    }
    if del {
        s := strings.TrimSpace(txt)
        if len(s) == 0 {
            del = false
        }
        continue
    }
    fmt.Fprintln(out, txt)
}
if err = scanner.Err(); err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {

```

```

cmdName := os.Args[0]
log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
log.SetFlags(0)

flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

help := flag.Bool("h", false, "")

flag.Parse()

if *help {
    crUsage(os.Stdout)
    os.Exit(0)
}

for _, path := range flag.Args() {
    fi, err := os.Stat(path)
    if err != nil {
        log.Print(err)
        continue
    }
    if !fi.IsDir() {
        log.Printf("%s is not a directory", path)
        continue
    }
    if err = filepath.Walk(path, walkCopyrights); err != nil {
        log.Fatalf("%s error %s", path, err)
    }
}
}

```

## 1.137 six 1.14.0

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# 1.138 berkeley-db 5.3.28

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# 1.145 cryptsetup 2.3.4

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	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].

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## 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

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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

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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.

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## 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.

## 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_nametoindex(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().

## Acknowledgments

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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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- [3] IEEE, "Protocol Independent Interfaces", IEEE Std 1003.1g, DRAFT 6.6, March 1997.
- [4] W. Stevens, M. Thomas, "Advanced Sockets API for IPv6", RFC 2292, February 1998.

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 ./bin/tests/system/acl/ns2/named4.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/ns2/named5.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/ns2/named6.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/ns2/named7.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/ns3/example.db ZONE 2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/ns4/example.db ZONE 2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/ns4/existing.db ZONE 2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/setup.sh SH 2008,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/acl/tests.sh SH 2008,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/clean.sh SH 2013,2014,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/mx.db ZONE 2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/named.args X 2013,2014,2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/named3.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/named4.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/naptr.db ZONE 2013,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/naptr2.db ZONE 2013,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/nid.db ZONE 2013,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/root.db ZONE 2019,2020,2021,2022  
 ./bin/tests/system/additional/ns1/rt.db ZONE 2013,2016,2018,2019,2020,2021,2022

./bin/tests/system/additional/ns1/rt2.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/srv.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/additional/setup.sh SH 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/tests.sh SH 2013,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/clean.sh SH 2010,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/system/addzone/ns2/redirect.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns3/e.db ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/addzone/tests.sh SH 2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/clean.sh SH 2018,2019,2020,2021,2022  
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./bin/tests/system/allow-query/ns2/named34.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named40.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named53.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/allow-query/ns2/named55.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named56.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named57.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/allow-query/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/tests.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/ans.pl PERL 2011,2012,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/auth/clean.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/auth/ns1/chaos.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/auth/ns1/example.com.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/auth/ns1/example.net.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/auth/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/auth/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/auth/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/auth/tests.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/clean.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns1/keygen.sh SH 2009,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/autosign/ns2/Xbar.+005+30676.private X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/Xbar.+005+30804.key X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/Xbar.+005+30804.private X 2010,2018,2019,2020,2021,2022  
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./bin/tests/system/autosign/ns2/child.nsec3.example.db ZONE 2009,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/autosign/ns2/dst.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/example.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/insecure.secure.example.db ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/keygen.sh SH 2009,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/autosign/ns3/autonsec3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/delay.example.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/delzsk.example.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/dname-at-apex-nsec3.example.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/inacksk2.example.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/inacksk3.example.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/inaczsk.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022

./bin/tests/system/autosign/ns3/inaczsk2.example.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/inaczsk3.example.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/insecure.example.db ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/jitter.nsec3.example.db.in ZONE 2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/keygen.sh SH  
2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/system/autosign/ns3/nsec.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/nsec3-to-nsec.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/autosign/ns3/nsec3.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/oldsigs.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/autosign/ns3/optout.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/autosign/ns3/secure-to-insecure2.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/autosign/ns3/secure.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/sync.example.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/ttl1.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/ttl2.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/ttl3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/ttl4.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/prereq.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/setup.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/tests.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/builtin/clean.sh SH 2014,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/builtin/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/builtin/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/builtin/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/builtin/tests.sh SH 2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/dig.batch X 2001,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/knowngood.dig.out X 2001,2018,2019,2020,2021,2022  
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./bin/tests/system/cachecclean/ns1/flushtest.db ZONE 2011,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/cachecclean/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/cache/clean/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/cache/clean/tests.sh SH 2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/case/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/case/dynamic.good X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/case/ns1/dynamic.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/case/ns1/example.db ZONE 2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/case/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/case/postupdate.good X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/case/setup.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/case/tests.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/catz/clean.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/catz/ns1/catalog.example.db.in ZONE 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/catz/ns2/named.conf.in CONF-C 2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/system/catz/ns3/dom6.example.db ZONE 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/catz/setup.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/catz/tests.sh SH 2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/chain/README TXT.BRIEF 2017,2018,2019,2020,2021,2022  
./bin/tests/system/chain/ans3/ans.pl PERL 2017,2018,2019,2020,2021,2022  
./bin/tests/system/chain/ans4/README.anspy TXT.BRIEF 2017,2018,2019,2020,2021,2022  
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./bin/tests/system/chain/setup.sh SH 2017,2018,2019,2020,2021,2022  
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./bin/tests/system/checkconf/altdb.conf CONF-C 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkconf/altdlz.conf CONF-C 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkconf/bad-also-notify.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkconf/bad-catz-zone.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkconf/bad-dnssec.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkconf/bad-hint.conf CONF-C 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkconf/bad-in-view-dup.conf CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/checkconf/bad-inline-slave.conf CONF-C 2013,2016,2018,2019,2020,2021,2022



./bin/tests/system/checkconf/bad-ipv4-prefix-dotted1.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/checkconf/bad-ipv4-prefix2.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/checkconf/bad-keep-response-order.conf CONF-C 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkconf/bad-lifetime.conf CONF-C 2014,2016,2018,2019,2020,2021,2022  
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 ./bin/tests/system/checkds/dig.bat BAT 2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/checkds/dig.pl PERL 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/checkds/dig.sh SH 2012,2013,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/checkds/missing.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022  
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 ./bin/tests/system/checkds/missing.example.ds.db X 2012,2018,2019,2020,2021,2022  
 ./bin/tests/system/checkds/none.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022  
 ./bin/tests/system/checkds/none.example.dnskey.db X 2012,2018,2019,2020,2021,2022  
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 ./bin/tests/system/checkds/ok.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022  
 ./bin/tests/system/checkds/ok.example.dnskey.db X 2012,2018,2019,2020,2021,2022  
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 ./bin/tests/system/checkds/tests.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/checkds/wrong.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022  
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./bin/tests/system/cookie/bad-cookie-badsiphash24.conf X 2019,2020,2021,2022  
./bin/tests/system/cookie/bad-cookie-toolong.conf CONF-C 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/good-cookie-aes.conf.in X 2019,2020,2021,2022  
./bin/tests/system/cookie/good-cookie-sha1.conf CONF-C 2017,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/good-cookie-sha256.conf CONF-C 2017,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/good-cookie-siphash24.conf X 2019,2020,2021,2022  
./bin/tests/system/cookie/ns1/example.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns1/root.hint ZONE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns2/root.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns3/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns4/root.hint ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns5/root.hint ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns6/root.hint ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns7/root.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns8/example.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/cookie/prereq.sh SH 2020,2021,2022  
./bin/tests/system/cookie/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/01-ksk-inactive/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/01-ksk-inactive/expect X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/02-zsk-inactive/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/02-zsk-inactive/expect X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/03-ksk-unpublished/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/03-ksk-unpublished/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/04-zsk-unpublished/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/04-zsk-unpublished/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/05-ksk-unpub-active/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/05-ksk-unpub-active/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/06-zsk-unpub-active/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/06-zsk-unpub-active/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/07-ksk-ttl/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/07-ksk-ttl/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/08-zsk-ttl/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/08-zsk-ttl/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/09-check-zsk/README X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/09-check-zsk/expect X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/10-check-ksk/README X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/10-check-ksk/expect X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/11-cutoff/README X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/11-cutoff/expect X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/12-ksk-deletion/expect X 2018,2019,2020,2021,2022  
./bin/tests/system/coverage/13-dotted-dotless/expect X 2019,2020,2021,2022  
./bin/tests/system/coverage/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/tests.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/database/clean.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/database/ns1/named1.conf.in CONF-C 2011,2013,2018,2019,2020,2021,2022  
./bin/tests/system/database/ns1/named2.conf.in CONF-C 2011,2013,2018,2019,2020,2021,2022  
./bin/tests/system/database/setup.sh SH 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/database/tests.sh SH 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/clean.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns1/inlineslave.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns1/named.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns2/added.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns2/named.args X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns2/named.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns2/normal.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/tests.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/clean.sh SH 2019,2020,2021,2022  
./bin/tests/system/dialup/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/dialup/ns2/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns3/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns3/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digcomp.pl PERL 2000,2001,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ans4/startme X 2017,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ans7/ans.pl PERL 2020,2021,2022  
./bin/tests/system/digdelv/clean.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/prereq.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/ditch.pl PERL 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/clean.sh SH 2004,2007,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns1/root.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns1/rootservers.utld.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns2/druz.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns2/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns2/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns2/utld.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns3/child.db.in ZONE 2004,2007,2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns3/dlv.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns3/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns3/sign.sh SH 2004,2007,2009,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns4/child.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns4/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns5/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns5/rndc.conf CONF-C 2004,2007,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns6/child.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns6/hints ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns6/sign.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/ns7/hints ZONE 2019,2020,2021,2022  
./bin/tests/system/dlv/ns7/named.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/dlv/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/setup.sh SH 2004,2007,2009,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlv/tests.sh SH 2004,2007,2010,2011,2012,2016,2018,2019,2020,2021,2022

./bin/tests/system/dlz/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/DNNAME=10=example.net.= TXT.BRIEF  
2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/NS=10=example.com.= TXT.BRIEF  
2015,2016,2018,2019,2020,2021,2022  
./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 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/DNNAME=10=example.net.= TXT.BRIEF  
2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/NS=10=example.com.= TXT.BRIEF  
2010,2016,2018,2019,2020,2021,2022  
./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  
2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlz/ns1/dns-root/com/example/xfr.d/10.53.0.1 TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlz/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dlz/prereq.sh SH 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlz/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/dlz/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/Makefile.in MAKE 2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/clean.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/driver.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/driver.h C 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/ns1/dlzs.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/ns1/named.conf.in CONF-C 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dlzexternal/tests.sh SH 2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/clean.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad18.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad19.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad6.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad7.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad8.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/bad9.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/good1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/good2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/good3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/good4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/good5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/conf/warn1.conf CONF-C 2019,2020,2021,2022



./bin/tests/system/dns64/conf/warn2.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dns64/conf/warn3.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dns64/conf/warn4.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dns64/conf/warn5.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dns64/conf/warn6.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dns64/conf/warn7.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dns64/conf/warn8.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dns64/ns1/example.db ZONE 2010,2011,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dns64/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dns64/ns2/rpz.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dns64/tests.sh SH 2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/README TXT.BRIEF 2000,2001,2002,2004,2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ans10/ans.py PYTHON 2020,2021,2022  
./bin/tests/system/dnssec/clean.sh SH  
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/dnssec\_update\_test.pl PERL 2002,2004,2007,2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns1/root.db.in ZONE  
2000,2001,2004,2007,2010,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns1/sign.sh SH  
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/algroll.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/badparam.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/cdnskey-auto.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/cdnskey-update.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/cdnskey.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/cds-auto.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/cds-update.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/cds.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/child.nsec3.example.db ZONE 2006,2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/child.optout.example.db ZONE 2006,2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/dlv.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/dst.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/example.db.in ZONE  
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/in-addr.arpa.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/insecure.secure.example.db ZONE  
2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/key.db.in ZONE 2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/private.secure.example.db.in ZONE  
2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/rfc2335.example.db X 2004,2018,2019,2020,2021,2022

./bin/tests/system/dnssec/ns2/sign.sh SH  
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/single-nsec3.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/template.secure.db.in ZONE 2019,2020,2021,2022  
./bin/tests/system/dnssec/ns2/too-many-iterations.db.in ZONE 2021,2022  
./bin/tests/system/dnssec/ns3/auto-nsec.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/auto-nsec3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/bogus.example.db.in ZONE  
2000,2001,2004,2007,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/dname-at-apex-nsec3.example.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/dnskey-nsec3-unknown.example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/dnskey-unknown.example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/dnskey-unsupported-2.example.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/dnskey-unsupported.example.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/dynamic.example.db.in ZONE 2002,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/expired.example.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/expiring.example.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/future.example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/generic.example.db.in ZONE 2001,2002,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/inline.example.db ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/insecure.below-cname.example.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/insecure.example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/insecure.nsec3.example.db ZONE 2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/insecure.optout.example.db ZONE 2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/key.db.in ZONE 2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/kskonly.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/lower.example.db.in ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/managed-future.example.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/multiple.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/nosign.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/nsec3-unknown.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/nsec3.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/nsec3.nsec3.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/nsec3.optout.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/occluded.example.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/optout-unknown.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/optout.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/optout.nsec3.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/dnssec/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/secure.below-cname.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/dnssec/ns3/secure.optout.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022

./bin/tests/system/dnssec/ns3/siginterval.example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/siginterval1.conf CONF-C 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/siginterval2.conf CONF-C 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/sign.sh SH  
2000,2001,2002,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/split-dnssec.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/split-smart.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/tlpatch.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/unsupported-algorithm.key X 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/update-nsec3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns3/upper.example.db.in ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns4/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns4/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns4/named3.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns4/named4.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns4/named5.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns5/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns5/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns5/sign.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns5/trusted.conf.bad CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns6/named.args X 2013,2014,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/dnssec/ns6/optout-tld.db.in ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns6/sign.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns7/named.nosoa TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns7/nosoa.secure.example.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns7/sign.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns7/split-rrsig.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/ns8/named.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/dnssec/ns9/named.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/dnssec/ntadiff.pl PERL 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/prereq.sh SH  
2000,2001,2002,2004,2006,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/setup.sh SH  
2000,2001,2004,2007,2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.key X 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.private X 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.key X 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.private X 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+15002.key X 2021,2022  
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+15002.private X 2021,2022  
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+63613.key X 2021,2022  
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+63613.private X 2021,2022  
./bin/tests/system/dnssec/signer/general/bogus-ksk.key X 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/bogus-zsk.key X 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/test1.zone ZONE 2018,2019,2020,2021,2022

./bin/tests/system/dnssec/signer/general/test2.zone ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/test3.zone ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/test4.zone ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/test5.zone ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/test6.zone ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/test7.zone ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/test8.zone ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/general/test9.zone ZONE 2021,2022  
./bin/tests/system/dnssec/signer/remove.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/signer/remove2.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnssec/tests.sh SH  
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/README TXT.BRIEF 2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-max.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-min.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-max.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-min.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-max.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-min.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-po2.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-max.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-min.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-max.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-min.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-missing-dnstap-output-view.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dnstap/bad-missing-dnstap-output.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dnstap/clean.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/good-dnstap-in-options.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dnstap/good-dnstap-in-view.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/dnstap/good-fstrm-set-buffer-hint.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/good-fstrm-set-flush-timeout.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/good-fstrm-set-input-queue-size.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/good-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-mpsc.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-spsc.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/good-fstrm-set-output-queue-size.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/good-fstrm-set-reopen-interval.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/large-answer.fstrm X 2019,2020,2021,2022  
./bin/tests/system/dnstap/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/dnstap/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/dnstap/ydump.py PYTHON 2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/dscp/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns1/named.args X 2013,2014,2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns2/named.args X 2013,2014,2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns3/hint.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns3/named.args X 2013,2014,2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns4/named.args X 2013,2014,2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns4/root.db ZONE 2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/dscp/ns6/hint.db ZONE 2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/dscp/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns7/named.args X 2013,2014,2018,2019,2020,2021,2022  
./bin/tests/system/dscp/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dscp/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/dscp/tests.sh SH 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/dsdigest/ns1/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/ns2/bad.db.in ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/ns2/good.db.in ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/ns2/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dsdigest/tests.sh SH 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dupsigs/check\_journal.pl PERL 2018,2019,2020,2021,2022  
./bin/tests/system/dupsigs/clean.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/dupsigs/ns1/named.args X 2018,2019,2020,2021,2022  
./bin/tests/system/dupsigs/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dupsigs/ns1/reset\_keys.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/dupsigs/ns1/signing.test.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/dupsigs/prereq.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/dupsigs/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/dupsigs/tests.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/Makefile.in MAKE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/clean.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/AUTHORS X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/COPYING X 2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/dyndb/driver/Makefile.in MAKE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/README X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/db.c X 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/db.h X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/driver.c X 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/instance.c X 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/instance.h X 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/lock.c X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/lock.h X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/log.c X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/log.h X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/syncptr.c X 2015,2017,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/syncptr.h X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/util.h X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/zone.c X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/driver/zone.h X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/dyndb/tests.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ecdsa/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ecdsa/ns1/named.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ecdsa/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ecdsa/ns1/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ecdsa/ns2/named.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ecdsa/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ecdsa/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ecdsa/tests.sh SH 2012,2013,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/clean.sh SH 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns1/named.conf CONF-C 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns1/root.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns1/sign.sh SH 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.key X 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.private X 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.key X 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.private X 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/Xexample.com.+016+09713.key X 2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/Xexample.com.+016+09713.private X 2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/Xexample.com.+016+38353.key X 2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/Xexample.com.+016+38353.private X 2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/example.com.db ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/named.conf CONF-C 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/ns2/sign.sh SH 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/prereq.sh SH 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/setup.sh SH 2017,2018,2019,2020,2021,2022  
./bin/tests/system/eddsa/tests.sh SH 2017,2018,2019,2020,2021,2022  
./bin/tests/system/ednscompliance/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ednscompliance/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/ednscpliance/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ednscpliance/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/ednscpliance/tests.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/emptyzones/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/emptyzones/ns1/empty.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/emptyzones/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/emptyzones/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/emptyzones/ns1/rfc1918.zones CONF-C 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/emptyzones/ns1/root.hint ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/emptyzones/setup.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/emptyzones/tests.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/feature-test.c C 2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ans4/ans.pl PERL 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/clean.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ns3/named.args X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ns3/named3.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/ns3/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/prereq.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/setup.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/fetchlimit/tests.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/bad1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/bad2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/bad3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/bad4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/bad5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/bad6.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/good1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/good2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/good3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/good4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/good5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/good6.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/good7.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/conf/good8.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns1/root.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns1/signed.db.in ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns1/signed.db.presigned X 2014,2017,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns1/unsigned.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/filter-aaaa/ns2/hints ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns3/hints ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns4/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns4/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns4/root.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns4/signed.db.in ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns4/signed.db.presigned X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns4/unsigned.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns5/hints ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/prereq.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/filter-aaaa/tests.sh SH 2010,2012,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/formerr/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/formerr/formerr.pl PERL 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/formerr/nametoolong X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/formerr/noquestions X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/formerr/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/formerr/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/formerr/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/formerr/tests.sh SH 2013,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/formerr/twoquestions X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ans6/startme X 2019,2020,2021,2022  
./bin/tests/system/forward/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns1/example.db X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns2/example.db X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns2/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns3/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns4/malicious.db ZONE 2020,2021,2022  
./bin/tests/system/forward/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns4/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns5/rebind.db ZONE 2020,2021,2022  
./bin/tests/system/forward/ns5/root.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ns7/named.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/forward/ns7/root.db ZONE 2019,2020,2021,2022  
./bin/tests/system/forward/prereq.sh SH 2019,2020,2021,2022  
./bin/tests/system/forward/rfc1918-inherited.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/forward/rfc1918-notinherited.conf CONF-C 2016,2018,2019,2020,2021,2022



./bin/tests/system/forward/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/forward/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ula-inherited.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/forward/ula-notinherited.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/genzone.sh SH  
2001,2002,2003,2004,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIP.csv X 2013,2014,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIP.dat X 2013,2014,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPASNum.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPASNum.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPASNumv6.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPASNumv6.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPCity.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPCity.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPCityv6.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPCityv6.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPDomain.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPDomain.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPISP.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPISP.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPNetSpeed.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPNetSpeed.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPOrg.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPOrg.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPRegion.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPRegion.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPv6.csv X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/GeoIPv6.dat X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/data/README TXT.BRIEF 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named10.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named11.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named12.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named13.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named14.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named15.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named16.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named3.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named4.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named5.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named6.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named7.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named8.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/ns2/named9.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/geoip/options.conf CONF-C 2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/geoip/prereq.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/geoip/tests.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/geoip2/clean.sh SH 2019,2020,2021,2022  
./bin/tests/system/geoip2/conf/bad-areacode.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/conf/bad-dbname.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/conf/bad-netspeed.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/conf/bad-regiondb.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/conf/bad-threeletter.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/conf/good-options.conf CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoIP2-City.json X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoIP2-City.mmdb X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoIP2-Country.json X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoIP2-Country.mmdb X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoIP2-Domain.json X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoIP2-Domain.mmdb X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoIP2-ISP.json X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoIP2-ISP.mmdb X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoLite2-ASN.json X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/GeoLite2-ASN.mmdb X 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/README.md MKD 2019,2020,2021,2022  
./bin/tests/system/geoip2/data/write-test-data.pl PERL 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/example.db.in ZONE 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named1.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named10.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named11.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named12.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named13.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named14.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named2.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named3.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named4.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named5.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named6.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named7.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named8.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named9.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/prereq.sh SH 2019,2020,2021,2022  
./bin/tests/system/geoip2/setup.sh SH 2019,2020,2021,2022  
./bin/tests/system/geoip2/tests.sh SH 2019,2020,2021,2022  
./bin/tests/system/glue/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/fi.good X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/glue/nogluce.good X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/cache.in ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/mil.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/net.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/root-servers.nil.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/glue/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/setup.sh SH 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/tests.sh SH 2000,2001,2003,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/xx.good X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/glue/yy.good X 2000,2001,2003,2018,2019,2020,2021,2022  
./bin/tests/system/gost/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/ns1/root.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/ns2/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/prereq.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/tests.sh SH 2010,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/idna/clean.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/idna/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/idna/ns1/root.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/idna/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/idna/tests.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/ifconfig.bat BAT 2016,2018,2019,2020,2021,2022  
./bin/tests/system/ifconfig.sh SH  
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./bin/tests/system/inline/checkdsa.sh.in SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/system/inline/ns1/root.db.in ZONE 2011,2012,2013,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns2/bits.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns2/nsec3-loop.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns3/master.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns3/master2.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns3/master3.db.in ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns3/master4.db.in ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns3/master5.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns3/master6.db.in ZONE 2019,2020,2021,2022  
./bin/tests/system/inline/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns3/sign.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/system/inline/ns4/noixfr.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns5/named.conf.post CONF-C 2011,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns5/named.conf.pre CONF-C 2011,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/inline/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns7/sign.sh SH 2017,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns8/example.com.db.in ZONE 2020,2021,2022  
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./bin/tests/system/inline/setup.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/system/integrity/clean.sh SH 2017,2018,2019,2020,2021,2022  
./bin/tests/system/integrity/ns1/mx-cname.db ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/integrity/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/integrity/setup.sh SH 2018,2019,2020,2021,2022  
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./bin/tests/system/ixfr/ans2/startme X 2011,2018,2019,2020,2021,2022  
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./bin/tests/system/ixfr/ns3/mytest0.db ZONE 2011,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/ixfr/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/ixfr/ns5/named.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/ixfr/prereq.sh SH 2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ixfr/setup.sh SH 2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ixfr/tests.sh SH 2001,2004,2007,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/01-ksk-inactive/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/01-ksk-inactive/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/02-zsk-inactive/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/02-zsk-inactive/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/03-ksk-unpublished/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/03-ksk-unpublished/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/04-zsk-unpublished/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/keymgr/05-ksk-unpub-active/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/06-zsk-unpub-active/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/06-zsk-unpub-active/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/07-ksk-ttl/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/07-ksk-ttl/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/08-zsk-ttl/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/08-zsk-ttl/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/09-no-keys/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/keymgr/10-change-roll/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/10-change-roll/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/11-many-simul/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/11-many-simul/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/12-many-active/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/keymgr/13-noroll/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/13-noroll/expect X 2016,2018,2019,2020,2021,2022

./bin/tests/system/keymgr/14-wrongalg/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/14-wrongalg/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/15-unspec/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/keymgr/16-wrongalg-unspec/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/keymgr/17-noforce/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/keymgr/18-nonstd-prepub/README.TXT.BRIEF 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/18-nonstd-prepub/expect X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/18-nonstd-prepub/policy.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/19-old-keys/README.TXT.BRIEF 2019,2020,2021,2022  
./bin/tests/system/keymgr/19-old-keys/expect X 2019,2020,2021,2022  
./bin/tests/system/keymgr/19-old-keys/extra.sh SH 2019,2020,2021,2022  
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./bin/tests/system/keymgr/clean.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/policy.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/policy.good X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/policy.sample CONF-C 2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/prereq.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/keymgr/setup.sh SH 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/keymgr/tests.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/build.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/clean.sh SH 2014,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/legacy/ns1/trusted.conf X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns10/ednsrefused.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns10/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns10/named.ednsrefused X 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns2/dropedns.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns2/named.dropedns X 2014,2018,2019,2020,2021,2022  
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./bin/tests/system/legacy/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns3/named.dropedns X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns3/named.notcp X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns4/named.args X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns4/plain.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns5/named.args X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns5/named.notcp X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns5/plain-notcp.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns6/edns512.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns6/edns512.db.signed X 2014,2018,2019,2020,2021,2022

./bin/tests/system/legacy/ns6/named.args X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns6/sign.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns7/edns512-notcp.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns7/edns512-notcp.db.signed X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns7/named.args X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns7/named.notcp X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns7/sign.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns8/ednsformerr.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns8/named.ednsformerr X 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns9/ednsnotimp.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns9/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/ns9/named.ednsnotimp X 2018,2019,2020,2021,2022  
./bin/tests/system/legacy/setup.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/legacy/tests.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/limits/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/limits/knowngood.dig.out.1000 X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/limits/knowngood.dig.out.2000 X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/limits/knowngood.dig.out.3000 X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/limits/knowngood.dig.out.4000 X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/limits/knowngood.dig.out.a-maximum-rrset X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/limits/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/limits/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/limits/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/limits/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/limits/tests.sh SH 2000,2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/clean.sh SH 2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/controls.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/named.dirconf CONF-C 2011,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/named.pipeconf CONF-C 2011,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/named.plain CONF-C 2011,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/named.plainconf CONF-C 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/named.symconf CONF-C 2011,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/named.unlimited CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/named.versconf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/rndc.conf.in CONF-C 2011,2013,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/ns1/root.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/setup.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/logfileconfig/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/lwresd/Makefile.in MAKE  
2000,2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/lwresd/clean.sh SH 2008,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/lwresd/lwresd1/lwresd.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/lwresd/lwresd1/nosearch.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/lwresd/lwresd1/resolv.conf CONF-SH  
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./bin/tests/system/lwresd/lwtest.c C  
2000,2001,2002,2004,2007,2008,2012,2013,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/ns1/10.10.10.in-addr.arpa.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/ns1/e.example1.db X 2008,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/ns1/example1.db ZONE  
2000,2001,2002,2003,2004,2007,2008,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/ns1/example2.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/ns1/ip6.arpa.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/ns1/ip6.int.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/ns1/named.conf CONF-C  
2000,2001,2004,2006,2007,2008,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/resolv.conf CONF-SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/clean.sh SH 2001,2004,2007,2010,2012,2014,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/knowngood.dig.out X 2001,2004,2012,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/ns1/include.db ZONE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/masterfile/ns1/sub.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/ns1/ttl1.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/ns1/ttl2.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/ns2/example.db ZONE 2010,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/masterfile/setup.sh SH 2018,2019,2020,2021,2022

./bin/tests/system/masterfile/tests.sh SH 2001,2004,2007,2010,2012,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/zone/inheritownerafterinclude.db ZONE 2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/zone/inheritownerafterinclude.good X 2015,2018,2019,2020,2021,2022

./bin/tests/system/masterfile/zone/nameservers.db ZONE 2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterformat/clean.sh SH 2005,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterformat/ns1/compile.sh SH  
2005,2006,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterformat/ns1/example.db ZONE 2005,2007,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterformat/ns1/large.db.in ZONE 2012,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterformat/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/masterformat/ns1/signed.db ZONE 2013,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterformat/ns2/formerly-text.db.in ZONE 2011,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterformat/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/masterformat/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/masterformat/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterformat/setup.sh SH 2005,2006,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/masterformat/tests.sh SH 2005,2007,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/metadata/child.db ZONE 2009,2016,2018,2019,2020,2021,2022

./bin/tests/system/metadata/clean.sh SH 2009,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/metadata/parent.db ZONE 2009,2016,2018,2019,2020,2021,2022

./bin/tests/system/metadata/prereq.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/metadata/setup.sh SH 2009,2011,2012,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/metadata/tests.sh SH 2009,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/mkeys/README TXT.BRIEF 2015,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/mkeys/clean.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns1/named3.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns1/root.db ZONE 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns1/sign.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns1/unsupported.key X 2019,2020,2021,2022  
./bin/tests/system/mkeys/ns2/named.args X 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns3/named.args X 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns5/named1.args X 2017,2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns5/named2.args X 2017,2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/ns6/named.args X 2019,2020,2021,2022  
./bin/tests/system/mkeys/ns6/named.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/mkeys/ns6/setup.sh SH 2019,2020,2021,2022  
./bin/tests/system/mkeys/ns6/unsupported-managed.key X 2019,2020,2021,2022  
./bin/tests/system/mkeys/ns7/named.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/mkeys/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/setup.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/mkeys/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/names/clean.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/names/ns1/example.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/names/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/names/setup.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/names/tests.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns2/example1.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns2/example2.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns2/example3.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns2/example4.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns2/generic.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns4/named.port.in X 2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/notify/ns5/x21.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/notify/tests.sh SH  
2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nslookup/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nslookup/ns1/example.net.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/nslookup/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nslookup/setup.sh SH 2014,2016,2018,2019,2020,2021,2022



./bin/tests/system/nslookup/tests.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ans4/ans.pl PERL 2017,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/clean.sh SH  
2000,2001,2004,2007,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/commandlist X 2012,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/knowngood.ns1.after X 2000,2001,2003,2004,2009,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/knowngood.ns1.afterstop X 2001,2004,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/knowngood.ns1.before X 2000,2001,2003,2004,2009,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/krb/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns1/example1.db ZONE  
2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns1/many.test.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns1/max-ttl.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns1/sample.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns10/dns.keytab X 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns10/example.com.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns10/in-addr.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns10/machine.ccache X 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns10/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns2/sample.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns3/delegation.test.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns3/dnskey.test.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns3/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns3/nsec3param.test.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns3/sign.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns3/too-big.test.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns5/local.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns5/named.args X 2017,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns5/named.conf.in CONF-C 2017,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns6/in-addr.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns6/named.args X 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns7/dns.keytab X 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns7/example.com.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns7/in-addr.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns7/machine.ccache X 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns8/dns-other-than-KRB5\_KTNAME.keytab X 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns8/example.com.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns8/in-addr.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns8/machine.ccache X 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns9/dns.keytab X 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns9/example.com.db.in ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns9/in-addr.db.in ZONE 2018,2019,2020,2021,2022

./bin/tests/system/nsupdate/ns9/machine.ccache X 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/ns9/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/prereq.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/setup.sh SH  
2000,2001,2004,2007,2009,2010,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/tests.sh SH  
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/update\_test.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/nsupdate/verylarge.in X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/nzd2nzd/clean.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/nzd2nzd/ns1/added.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/nzd2nzd/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/nzd2nzd/prereq.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/nzd2nzd/setup.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/nzd2nzd/tests.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/org.isc.bind.system SH 2010,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/org.isc.bind.system.plist X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/packet.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/parallel.sh SH 2019,2020,2021,2022  
./bin/tests/system/pending/clean.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns1/root.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns1/sign.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns2/example.com.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns2/example.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns2/forgery.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns2/sign.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns3/hostile.db ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns3/mail.example.db ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pending/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pending/prereq.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/setup.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pending/tests.sh SH 2009,2010,2012,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/Makefile.in MAKE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/input X 2014,2015,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/inputb X 2014,2015,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns1/root.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns2/examplea.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns3/exampleb.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns3/named.args X 2014,2015,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/pipequeries.c C 2014,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/pipelined/ref X 2014,2015,2018,2019,2020,2021,2022  
 ./bin/tests/system/pipelined/refb X 2014,2015,2018,2019,2020,2021,2022  
 ./bin/tests/system/pipelined/setup.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/pipelined/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11/2037-pk11\_numbits-crash-test.pkt X 2020,2021,2022  
 ./bin/tests/system/pkcs11/clean.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11/ns1/named.conf CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11/setup.sh SH 2010,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11/tests.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11/usepkcs11 X 2010,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11ssl/clean.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11ssl/ns1/example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11ssl/ns1/named.conf CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11ssl/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11ssl/setup.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11ssl/tests.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/pkcs11ssl/usepkcs11 X 2014,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/README TXT.BRIEF 2014,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ans2/ans.pl PERL 2014,2015,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ans4/ans.pl PERL 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ans7/ans.pl PERL 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/clean.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns1/root.db ZONE 2014,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/hints.db ZONE 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/named3.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/named4.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/prereq.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/setup.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/clean.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/bad1.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/bad2.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/bad3.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/good1.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/good2.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/good3.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/good4.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/example.db ZONE 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/redirect.db ZONE 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/root.db ZONE 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns2/example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/redirect/ns2/redirect.db.in ZONE 2011,2013,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/redirect/ns3/example.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/redirect/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/redirect/ns3/redirect.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/redirect/ns3/root.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/redirect/ns3/sign.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/redirect/ns4/example.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/redirect/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/redirect/ns4/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/redirect/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/redirect/setup.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/redirect/tests.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ans2/ans.pl PERL 2000,2001,2004,2007,2009,2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ans3/ans.pl PERL 2000,2001,2004,2007,2009,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ans8/ans.pl PERL 2017,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/clean.sh SH 2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns1/root.hint ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns4/broken.db ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns4/child.server.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns4/moves.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns4/named.noaa TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns4/root.db ZONE 2010,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns4/sourcens.db ZONE 2020,2021,2022  
./bin/tests/system/resolver/ns4/tld1.db ZONE 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns4/tld2.db ZONE 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns5/child.server.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns5/moves.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns5/root.hint ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/broken.db ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/delegation-only.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/ds.example.net.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/example.net.db.in ZONE 2010,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/keygen.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/moves.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/no-edns-version.tld.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/root.db ZONE 2010,2011,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns6/targetns.db ZONE 2020,2021,2022  
./bin/tests/system/resolver/ns6/to-be-removed.tld.db.in ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns7/all-cnames.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns7/edns-version.tld.db ZONE 2014,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/resolver/ns7/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns7/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns7/root.hint ZONE 2010,2016,2018,2019,2020,2021,2022

./bin/tests/system/resolver/ns7/server.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/prereq.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/setup.sh SH 2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/tests.sh SH  
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./bin/tests/system/rndc/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/system/rndc/ns2/secondkey.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rndc/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/rootkeysentinel/clean.sh SH 2018,2019,2020,2021,2022  
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./bin/tests/system/rootkeysentinel/ns1/sign.sh SH 2018,2019,2020,2021,2022  
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./bin/tests/system/rootkeysentinel/ns2/sign.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/rootkeysentinel/ns3/hint.db ZONE 2018,2019,2020,2021,2022  
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./bin/tests/system/rootkeysentinel/tests.sh SH 2018,2019,2020,2021,2022  
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./bin/tests/system/rpz/ns2/bl.tld2.db.in ZONE 2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpz/ns2/blv3.tld2.db.in ZONE 2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpz/ns3/crash1 X 2011,2013,2018,2019,2020,2021,2022  
./bin/tests/system/rpz/ns3/crash2 X 2011,2012,2013,2018,2019,2020,2021,2022  
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./bin/tests/system/rpz/ns3/manual-update-rpz-2.db.in ZONE 2019,2020,2021,2022  
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./bin/tests/system/rpz/qperf.sh SH 2012,2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpz/test3 ZONE 2011,2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpz/test6 ZONE 2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/ns2/db.clientip2 ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/db.clientip21 ZONE 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/ns2/db.log2 ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/db.log3 ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/db.passthru ZONE 2020,2021,2022

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./bin/tests/system/rpzrecurse/ns2/db.wildcard2a ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/db.wildcard2b ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/db.wildcard3 ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/named.clientip.conf CONF-C 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/named.clientip2.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/named.conf.header.in CONF-C 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/named.default.conf CONF-C 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/named.log.conf CONF-C 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns2/named.wildcard1.conf CONF-C 2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/ns2/named.wildcard3.conf CONF-C 2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/ns3/root.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns4/child.example.db ZONE 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/setup.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/testgen.pl PERL 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/tests.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rrchecker/classlist.good X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/rrchecker/clean.sh SH 2013,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/rrchecker/privatelist.good X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/rrchecker/tests.sh SH 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/rrchecker/typelist.good X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/rrl/broken.conf CONF-C 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rrsetorder/dig.out.random.good9 X 2006,2018,2019,2020,2021,2022  
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./bin/tests/system/rrsetorder/ns1/root.db ZONE 2006,2007,2012,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rrsetorder/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/rsabigexponent/conf/bad01.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rsabigexponent/conf/bad02.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rsabigexponent/conf/bad03.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rsabigexponent/conf/good01.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rsabigexponent/conf/good02.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rsabigexponent/conf/good03.conf CONF-C 2012,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rsabigexponent/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.private X 2012,2018,2019,2020,2021,2022  
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./bin/tests/system/rsabigexponent/ns2/example.db.bad ZONE 2012,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rsabigexponent/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/rsabigexponent/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rsabigexponent/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rsabigexponent/tests.sh SH 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/run.gdb X 2019,2020,2021,2022  
./bin/tests/system/run.sh SH 2000,2001,2004,2007,2010,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runall.sh SH 2000,2001,2004,2007,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/runsequential.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/runtime/README TXT.BRIEF 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/clean.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/ns2/named-alt1.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/ns2/named-alt2.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/ns2/named-alt3.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/ns2/named-alt4.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/ns2/named-alt5.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/ns2/named-alt6.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/ns2/named-alt9.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/runtime/ns2/named1.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/setup.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/runtime/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/send.pl PERL 2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/README TXT.BRIEF 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/ns1/root.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/ns1/sign.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/ns2/example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/ns2/sign.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/ns5/trusted.conf.bad CONF-C 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/setup.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sfcache/tests.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/smartsign/child.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/smartsign/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/smartsign/parent.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/smartsign/prereq.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/smartsign/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/smartsign/tests.sh SH 2010,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/sortlist/clean.sh SH 2000,2001,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/sortlist/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/sortlist/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/sortlist/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/spf/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/spf/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/spf/setup.sh SH 2018,2019,2020,2021,2022  
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./bin/tests/system/start.pl SH  
2001,2004,2005,2006,2007,2008,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/start.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/clean.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/bad01.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/staticstub/conf/bad03.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/bad04.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/bad05.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/bad06.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/bad07.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/bad08.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/bad09.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/staticstub/conf/bad11.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/staticstub/conf/good02.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/good03.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/good04.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/conf/good05.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/knowngood.dig.out.rec X 2010,2013,2018,2019,2020,2021,2022  
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./bin/tests/system/staticstub/ns2/named.conf.in CONF-C 2010,2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/staticstub/ns3/example.org.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/ns3/named.conf.in CONF-C 2010,2013,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/ns3/sign.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/ns3/undelegated.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/ns4/example.com.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/ns4/example.info.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/ns4/example.org.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/ns4/sub.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/staticstub/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statistics/ans4/ans.pl PERL 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statistics/clean.sh SH 2012,2014,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/statistics/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/statistics/ns1/root.db ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statistics/ns1/zone.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statistics/ns2/example.db ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statistics/ns2/internal.db ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statistics/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/statistics/ns3/internal.db ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statistics/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/statistics/ns3/root.hint ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statistics/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statistics/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/statistics/tests.sh SH 2012,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/clean.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/fetch.pl PERL 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/server-json.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/server-xml.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/tests.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/traffic-json.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/traffic-xml.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/traffic.expect.1 X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/traffic.expect.2 X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/traffic.expect.4 X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/traffic.expect.5 X 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/statschannel/traffic.expect.6 X 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stop.pl SH 2001,2004,2005,2006,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stop.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stopall.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/stress/clean.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/stress/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stress/ns3/named.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stress/ns4/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stress/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/stress/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stress/tests.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stress/update.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stub/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stub/knowngood.dig.out.norec X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/stub/knowngood.dig.out.rec X 2000,2001,2013,2018,2019,2020,2021,2022  
./bin/tests/system/stub/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/stub/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stub/ns2/child.example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/stub/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/stub/ns3/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/stub/ns4/example.db ZONE 2020,2021,2022  
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./bin/tests/system/stub/ns5/named.conf.in CONF-C 2020,2021,2022  
./bin/tests/system/stub/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/stub/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tcp/ans6/ans.py PYTHON 2019,2020,2021,2022  
./bin/tests/system/tcp/clean.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tcp/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/tcp/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tcp/ns2/example.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tcp/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/tcp/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/tcp/ns5/named.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/tcp/prereq.sh SH 2019,2020,2021,2022  
./bin/tests/system/tcp/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/tcp/tests.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/testcrypto.sh SH 2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/testsock.pl PERL 2000,2001,2004,2007,2010,2011,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/testsock6.pl PERL 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/testsummary.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/tkey/Makefile.in MAKE  
2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tkey/clean.sh SH 2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tkey/keycreate.c C  
2001,2004,2005,2007,2009,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tkey/keydelete.c C  
2001,2004,2005,2007,2009,2010,2011,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tkey/ns1/example.db ZONE 2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/tkey/ns1/setup.sh SH 2001,2004,2007,2009,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tkey/prereq.sh SH 2001,2004,2006,2007,2009,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tkey/setup.sh SH 2001,2004,2007,2009,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tkey/tests.sh SH 2001,2004,2007,2009,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tsig/ans2/ans.pl PERL 2020,2021,2022  
./bin/tests/system/tsig/badlocation X 2020,2021,2022  
./bin/tests/system/tsig/badtime X 2020,2021,2022  
./bin/tests/system/tsig/clean.sh SH 2005,2006,2007,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tsig/ns1/example.db ZONE 2005,2006,2007,2009,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tsig/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/tsig/tests.sh SH 2005,2006,2007,2011,2012,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/tsiggss/clean.sh SH 2010,2011,2014,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/tsiggss/ns1/administrator.ccache X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/tsiggss/ns1/dns.keytab X 2010,2018,2019,2020,2021,2022  
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./bin/tests/system/tsiggss/setup.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/tsiggss/tests.sh SH 2010,2011,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/clean.sh SH  
2000,2001,2004,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/large.out X 2012,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/ns1/broken1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/ns1/broken2.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/ns1/broken3.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/ns1/broken4.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/ns1/broken5.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/ns1/class10.hints ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/unknown/ns3/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/unknown/zones/nan.bad ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/ans4/ans.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/knowngood.after1 X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/knowngood.after2 X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/knowngood.before X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/knowngood.ns2.before X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/ns1/example1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/ns3/nomaster.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/setup.sh SH 2000,2001,2004,2007,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/verify/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/verify/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/verify/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/verify/tests.sh SH 2012,2013,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/verify/zones/genzones.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/verify/zones/unsigned.db ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/clean.sh SH  
2000,2001,2004,2005,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/views/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/1.10.in-addr.arpa.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/clone.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/example1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/example2.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/external/inline.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/internal/inline.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/views/ns3/child.clone.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns3/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/views/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
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./bin/tests/system/views/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/tests.sh SH 2000,2001,2004,2007,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/clean.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/ns1/dlv.db.in ZONE 2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/wildcard/ns1/private.nsec.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/ns1/private.nsec3.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/ns1/root.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/ns1/sign.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/wildcard/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/win32/bigkey.dsp.in X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/win32/bigkey.dsw X 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/win32/bigkey.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/win32/keycreate.dsp.in X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/win32/keycreate.dsw X 2016,2018,2019,2020,2021,2022  
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./bin/tests/system/win32/keycreate.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/win32/keycreate.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/system/xfer/ans5/badkeydata X 2011,2018,2019,2020,2021,2022  
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./bin/tests/system/xfer/clean.sh SH  
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./bin/tests/system/xfer/dig2.good X  
2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/system/xfer/ns1/axfr-too-big.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns1/ixfr-too-big.db.in ZONE 2016,2018,2019,2020,2021,2022

./bin/tests/system/xfer/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns2/mapped.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns2/slave.db.in ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns4/named.conf.base CONF-C 2011,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns4/root.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns8/example.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xfer/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/xfer/prereq.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xfer/setup.sh SH  
2001,2002,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xfer/tests.sh SH  
2000,2001,2004,2005,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xferquota/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xferquota/ns1/changing1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xferquota/ns1/changing2.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/xferquota/ns2/example.db ZONE  
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./bin/tests/system/xferquota/setup.pl PERL 2000,2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/xferquota/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ans5/ans.pl PERL 2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns2/tld.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns3/root.hint ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns4/one.tld.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/prereq.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/zero/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/tests.sh SH 2013,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/a.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/aaaa.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/bigserial.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/cname.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/dname.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/noaddress.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022



./bin/tests/system/zonechecks/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/nxdomain.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/setup.sh SH 2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/tests.sh SH 2004,2007,2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/testdata/wire/wire\_test.data X 1999,2000,2001,2018,2019,2020,2021,2022  
./bin/tests/testdata/wire/wire\_test.data2 X 1999,2000,2001,2018,2019,2020,2021,2022  
./bin/tests/testdata/wire/wire\_test.data3 X 1999,2000,2001,2018,2019,2020,2021,2022  
./bin/tests/testdata/wire/wire\_test.data4 X 1999,2000,2001,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/Makefile.in MAKE 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/README TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-ksk/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-ksk/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
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./bin/tests/virtual-time/autosign-ksk/ns1/sign.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-ksk/ns1/wrap.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-ksk/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-ksk/tests.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-zsk/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/virtual-time/autosign-zsk/ns1/wrap.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-zsk/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-zsk/tests.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/cleanall.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/common/controls.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/common/rndc.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/common/root.hint ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/conf.sh.in SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/run.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/runall.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/ns1/wrap.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/tests.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/start.pl PERL 2010,2012,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/start.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/stop.pl PERL 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/stop.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/testsock.pl PERL 2010,2012,2016,2018,2019,2020,2021,2022

./bin/tests/virtual-time/vtwrapper.c C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/win32/backtrace\_test.dsp.in X 2013,2018,2019,2020,2021,2022  
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./bin/tests/win32/backtrace\_test.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022  
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./bin/tests/win32/inter\_test.dsp.in X 2013,2018,2019,2020,2021,2022  
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./bin/tests/win32/inter\_test.mak.in X 2013,2018,2019,2020,2021,2022  
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./bin/tests/win32/inter\_test.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/win32/inter\_test.vcxproj.user X 2013,2018,2019,2020,2021,2022  
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./bin/tests/win32/rwlock\_test.dsw X 2013,2018,2019,2020,2021,2022  
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./win32utils/legacy/makedefs.pl PERL 2001,2004,2007,2009,2012,2013,2014,2016,2018,2019,2020,2021,2022
./win32utils/legacy/win32-build.txt TXT.BRIEF 2001,2002,2004,2005,2008,2009,2012,2013,2014,2016,2018,2019
<!--
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-->

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

```

```

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

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </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="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="db:year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="db:holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:

```

- mode: sgml

- End:

-->

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# 1.149 golang 1.18.7

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#
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# Individual's name <submission email address>
# Individual's name <submission email address> <email2> <emailN>
#
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# that the other addresses should be recognized as the
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# Please keep the list sorted.

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```

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

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```
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...
```

```
;9GimCN7g
```

```
!"#$%&'()*+,-
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

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

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

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

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

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@c Local Variables:  
@c ispell-local-pdict: "ispell-dict"  
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```

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# 1.165 ncurses 6.2

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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](mailto:dickey@invisible-island.net)>

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# 1.166 errors 0.9.1

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#### A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

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

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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

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

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

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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.3.3	2.3.2	2002-2003	PSF	yes
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2.3.5	2.3.4	2005	PSF	yes
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2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	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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procs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.173 python-requests 2.25.1

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## 1.174 iproute 5.5.0

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## 1.177 tar 1.34

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Version 3, 29 June 2007

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under certain conditions; type `show c' for details.
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# 1.179 bsd-mailx 12.5-5

## 1.179.1 Available under license :

3.0 (quilt)

This package was debianized by Loic Prylli <lprylli@graville.fdn.fr> on Mon, 23 Dec 1996 00:13:13 +0100.

The package is currently maintained by Robert Lubberda <robert@debian.org>

It is now based on OpenBSD in directory src/usr.bin/mail on a lot of major ftp sites.

See the README.Debian (and changelog.Debian) for the complicated history of the Debian package.

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bsd-mailx for DEBIAN

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The history of this package is quite complicated. The changelog includes a summary with the different maintainers.

At the beginning of Debian, I think this package was based on a BSD 5.5 mail version from FreeBSD.

There has been a lot of work on the package shipped with Debian 0.93R6, which was based on a BSD 8.1 mail version from BSD4.4Lite. The extensions include support for dotfile locking, setgid support, POP

support, signal handling hacks.

here is a README originally found:

```
+ README for Berkely mailx version 8.1 with POP extension
+
+ This is "mailx", a simple program for sending and receiving email.
+
+ This is based on mailx version 8.1 (as distributed with BSD 4.4lite).
+
+ It has been extended to support the post-office protocol (POP). Run
+ "mail -p" and it will retrieve your email from a POP server rather than
+ from your local mail queue. See the manual page for more details.
+
+ The POP support was written by Jonathan I. Kamens for version mailx 5.5
+ (as distributed with BSD 4.3.)
+
+ The POP support was integrated into version 8.1 by Salvatore Valente
+ for no particular reason. (It would have been simpler for me to
+ simply use Jonathan's 5.5 source tree. There are no major differences
+ between the two versions.)
+
+ Have a nice day.
+ -Salvatore Valente. <svalente@athena.mit.edu>
+ 5/12/94
+
+ PORTING
+
+ Before attempting to compile this for _any_ system, you should do two
+ things:
+
+ Edit CFLAGS in Makefile.
+ Edit pathnames.h.
+
+ These sources are _extremely_ BSDish. I have successfully built this
+ for Linux, BSD 4.3, NetBSD, Ultrix, Aix, and SunOS. I have never
+ successfully gotten it to build for Solaris or any System 5ish system.
+ If you want to try, here are some issues you will face:
+
+ It uses BSD signal() semantics. Use sigaction().
+ It uses BSD longjmp() semantics. Use siglongjmp().
+ It uses BSD sgTTY. Use termios.
+ It uses BSD signal mask functions. Use posix sigmask functions.
+
+ There will probably be other hurdles too. Good luck.
```

With Debian1.1 a switch was done to a version base on a BSD5.5 mail

program, because of signal handling problems (which I think were due to bad compilation options). So no more POP support. Some patches from Ken Whang <Kenneth.C.Whang-1@umn.edu> included, the corresponding README was:

```
+ mailx-5.5-kw 5/30/95
+
+
+ WHAT'S IN THIS PATCH
+
+ There are a bunch of little features, common in System V and SunOS
+ versions of mailx, that are missing from the NetBSD-based version
+ distributed with Linux. This patch attempts to fill in some of what's
+ missing.
+
+ Changes from debian mailx-5.5 include:
+
+ 5/4/95:
+
+ -- interpret prompt variable
+ -- interpret ~a and ~A tilde escapes
+ -- updated tildehelp list
+ -- changed mail.rc to ignore nothing (just my personal preference)
+ -- accept From lines with times of the form hh:mm (formerly took only hh:mm:ss)
+
+ 5/7/95:
+
+ -- Save (S) command saves to mailbox named after author
+ -- take startup commands from file named by environment variable MAILRC
+
+ 5/30/95:
+
+ -- -H switch for header summary only
+
+ Still to be done:
+
+ -- pipe ~p output through PAGER (see type1 in cmd1.c for an example)
+ -- save (s) by default to MBOX (instead of "No file specified.")
+ -- ~q should save to dead.letter, ~x is not known
+ -- update man page
+ -- allnet and showto ("showto" shows recipient instead of sender if sender
+ is current user)
+
+ Possibly difficult:
+
+ -- interpret editheaders variable as in SunOS version
+
+ Bugs:
+
```

+ -- ~a,~A tilde escapes leave an extra trailing blank on each line  
+ -- to conform to original style, I should really be using char \*cp  
+ instead of new variables sig and prompt to be looking up variables  
+ -- -H switch implementation is kind of gross. grep for "hdronly" in  
+ source files; much room for improvement!

+

+

#### + HOW TO INSTALL

+

+ Apply Sal Valente's debian patch first, so:

+

+ tar xvfz mailx-5.5.tar.gz

+ cd mailx-5.5

+ zcat ../mailx-5.5.debian.diff.gz | patch -p1

+ zcat ../mailx-5.5-kw.diff.gz | patch -p1

+ make

+

+ Or you may wish to just uncompress the diff file and pick and choose  
+ the changes that you like.

+

+

#### + AUTHOR

+

+ Ken Whang <Kenneth.C.Whang-1@umn.edu>

This version has no provision for the debian mail policy (permission on /var/mail+dotfile locking), so Loic Prylli <lprylli@graville.fdn.fr> finally recreate a package based on the OpenBSD mail with the minimum number of patches to make it suited for debian (see changelog). There is no more POP support, nor the added functionality from Ken Whang, but all these patches are archived, so mail <lprylli@graville.fdn.fr> if you want them to be incorporated.

Loic Prylli <lprylli@graville.fdn.fr>, Mon, 23 Dec 1996 00:13:13 +0100

Sat Apr 4 14:05:38 CEST 1998:

After a security patch to fix tmp races, a number of things broke.

Here is what I have tried to fix them:

The rationale is to have all file openings go through safe\_open:

File opened in mode "w", "w+", are created with O\_EXCL mode,

(should coincide with temporary files or new files)

Files with "a" "a+" et "r+" mode do not require the O\_EXCL files. "a+" et "r+" do not creat the file.

Still to do: check creat calls



```
diff-ignore
tar-ignore
#!/usr/bin/make -f

include /usr/share/dpkg/architecture.mk

ifneq ($(DEB_HOST_GNU_TYPE),$(DEB_BUILD_GNU_TYPE))
export CC = $(DEB_HOST_GNU_TYPE)-gcc
else
export CC = gcc
endif

%:
dh "$@" --parallel

override_dh_auto_clean:
# Don't try to run make clean on unpatched version of Makefile
! grep -q DEBIAN Makefile || dh_auto_clean

override_dh_installchangelogs:
dh_installchangelogs -a debian/EXT/ChangeLog
00-Makefiles.patch
01-Fix-includes.patch
02-Base-fixes-1.patch
03-Base-fixes-2.patch
04-Add-custom-header.patch
05-Mailx-fixes.patch
06-Use-lockf-instead-of-flock.patch
07-Initialize-head-struct.patch
08-Use-libblockfile-library.patch
09-Saved-mbox-message.patch
10-Reply-To-header.patch
11-Showname-option.patch
12-REPLYTO-can-be-set-in-.mailrc-too.patch
13-Mailx-concatenates-messages.patch
14-Truncate-mailbox-instead-of-deleting-it.patch
15-No-space-left-in-tmp.patch
16-Stdin-not-a-tty.patch
17-Intialize-tv_used.patch
18-Wait-for-sendmail.patch
19-Fix-compilation-on-Hurd.patch
20-Don-t-delete-temporary-file.patch
21-Use-wordexpr-instead-of-echo.patch
22-Replace-newlines-with-spaces.patch
24-False-cant-send-email-errors.patch
25-Fix-confusing-error.patch
80-remove_T.patch
81-minus_f.patch
```

82-expandaddr.patch

83-nosendmail.patch

9

etc

usr/bin

usr/share/bsd-mailx

usr/share/man/man1

bsd-mailx (8.1.2-0.20131005cvs-1ubuntu0.14.04.1) trusty-security; urgency=medium

\* SECURITY UPDATE: shell command injection

- Apply OpenBSD patches from Todd Miller (taken from Debian update):

+ 80-remove\_T.patch (remove undocumented/obsolete -T option)

+ 81-minus\_f.patch (adjust -f processing)

+ 82-expandaddr.patch (fix CVE-2014-7844)

+ 83-nosendmail.patch (make -- work for option parsing suppression)

- CVE-2014-7844

-- Marc Deslauriers <marc.deslauriers@ubuntu.com> Mon, 05 Jan 2015 11:36:44 -0500

bsd-mailx (8.1.2-0.20131005cvs-1) unstable; urgency=low

\* New upstream version from OpenBSD CVS repository.

\* Remove 23-Treat-new-line-only-messages-as-empty-ones.patch, introduced in 1:8.1.2-0.20071017cvs-1 so that bsd-mailx will behave like other mailx implementations and will not treat messages containing a single new line only as an empty ones (LP: #607099, reopens #355545).

\* Extend description of this package to mention the fact that bsd-mailx lacks many features that may be found in other packages like heirloom-mailx or mailutils (closes: #508303).

\* Add 26-Fix-confusing-error.patch to make a message given when -b is used without -t less confusing (closes: #327809).

\* Fix 00-Makefile.patch not to override CC and pass CPPFLAGS while compiling.

\* debian/rules:

+ apply patch from Ubuntu to respect DEB\_HOST\_GNU\_TYPE when selecting CC for cross-compiling;

+ do not try to run make clean on unpatched Makefile.

\* Bump Standards-Version to 3.9.4 (no changes).

-- Robert Luberda <robert@debian.org> Sun, 06 Oct 2013 11:58:42 +0200

bsd-mailx (8.1.2-0.20111106cvs-1) unstable; urgency=low

\* New upstream version from OpenBSD CVS repository.

\* Drop the additional source files from EXT directory, use libbsd-dev instead. Move EXT to debian.

\* 00-Makefile: don't override CFLAGS set in environment.

\* Switch to dpkg-source 3.0 (quilt) format.

\* Use debhelper v9 and tiny debian/rules file.

\* debian/control:  
+ Build-Depends on libbsd-dev;  
+ Standards-Version: 3.9.2;  
+ use Breaks instead of versioned Conflicts;  
+ add Vcs fields;  
+ reformat the dependencies fields with `wrap-and-sort' command.  
\* Include full text of BSD licence in copyright (lintian).

-- Robert Luberda <robert@debian.org> Sun, 20 Nov 2011 23:37:22 +0100

bsd-mailx (8.1.2-0.20100314cvs-1) unstable; urgency=low

\* New upstream version from OpenBSD CVS repository.  
\* Follow upstream and stop installing the outdated documentation  
(closes: #455708); also remove doc-base file.  
\* debian/control:  
+ depend on default-mta instead of exim4 (closes: #555495);  
+ add \${misc:Depends} dependency (lintian);  
+ Standards-Version: 3.8.4 (no changes).

-- Robert Luberda <robert@debian.org> Sun, 14 Mar 2010 13:22:18 +0100

bsd-mailx (8.1.2-0.20090911cvs-2) unstable; urgency=medium

\* Fix a bogus "can't send mail: sendmail process failed" errors appearing  
rarely on systems under heavy loads (closes: #550116).  
Many thanks to Ivan Zahariev <famzah(at)icdsoft.com> for his investigation  
and patch.

-- Robert Luberda <robert@debian.org> Sat, 10 Oct 2009 11:21:11 +0200

bsd-mailx (8.1.2-0.20090911cvs-1) unstable; urgency=low

\* New upstream release from OpenBSD repository.  
\* Fix grammar in description (closes: #515781).  
\* Drop mailx transitional package.  
\* Bump debhelper compat mode to 7.  
\* Standards-Version: 3.8.3

-- Robert Luberda <robert@debian.org> Fri, 11 Sep 2009 18:14:22 +0200

bsd-mailx (8.1.2-0.20081101cvs-2) unstable; urgency=low

\* Upload to unstable.

-- Robert Luberda <robert@debian.org> Sun, 09 Nov 2008 09:00:25 +0100

bsd-mailx (8.1.2-0.20081101cvs-1) experimental; urgency=low

- \* New upstream release.
- \* Lower priority of mailx package to extra.
- \* Standards-Version: 3.8.0 (no changes).
- \* Remove duplicated `it' from description (lintian).

-- Robert Lubberda <robert@debian.org> Sat, 01 Nov 2008 12:40:12 +0100

bsd-mailx (8.1.2-0.20071201cvs-3) unstable; urgency=low

- \* Lower priority of mailx package to optional (see #477124).
- \* copyright: Add a copyright notice (lintian).
- \* Build depend on debhelper >= 6 (lintian).
- \* Change doc-base section to Network/Communication (lintian).

-- Robert Lubberda <robert@debian.org> Sat, 26 Apr 2008 09:52:18 +0200

bsd-mailx (8.1.2-0.20071201cvs-2) unstable; urgency=medium

- \* Add conflict with old mailx packages (closes: #459621).
- \* Standards-Version: 3.7.3 (no changes).
- \* Fix invalid regexp in postinst.

-- Robert Lubberda <robert@debian.org> Tue, 08 Jan 2008 23:01:18 +0100

bsd-mailx (8.1.2-0.20071201cvs-1) unstable; urgency=low

- \* New upstream version.
- \* Rename package to bsd-mailx, and create dummy mailx package for smooth upgrades.
- \* Manage /usr/bin/mailx with update-alternatives to allow other packages like mailutils or nail to be installed together with bsd-mailx.
- \* Remove outdated preinst script.

-- Robert Lubberda <robert@debian.org> Sat, 01 Dec 2007 12:54:13 +0100

mailx (1:8.1.2-0.20071017cvs-2) unstable; urgency=low

- \* collect.c: Oops, for debugging I commented out the line responsible for removing temporary, and forgot to uncomment it...

-- Robert Lubberda <robert@debian.org> Fri, 19 Oct 2007 23:10:11 +0200

mailx (1:8.1.2-0.20071017cvs-1) unstable; urgency=low

- \* New upstream version from OpenBSD CVS repository.
- \* send.c: treat messages which contain only a new line sign as empty messages (closes: #355545).

\* Fix `debian-rules-ignores-make-clean-error' lintian warning.

\* Bump debhelper compat mode to v6.

-- Robert Luberda <robert@debian.org> Thu, 18 Oct 2007 23:35:53 +0200

mailx (1:8.1.2-0.20070424cvs-1) unstable; urgency=low

\* New upstream version from OpenBSD CVS repository.

\* Standards-Version: 3.7.2.

\* Lower package priority to standard to match the override file.

\* main.c: Replace with spaces any embeded newline passed in arguments for '-s' and '-a' options (closes: #419840).

\* mail.1: Fix a typo (closes: #411420).

-- Robert Luberda <robert@debian.org> Thu, 03 May 2007 12:09:36 +0200

mailx (1:8.1.2-0.20050715cvs-1) unstable; urgency=low

\* New upstream version from OpenBSD CVS repository:

+ fixed segfault in list.c (closes: #313306).

\* Standard-Version: 3.6.2 (no changes).

-- Robert Luberda <robert@debian.org> Fri, 15 Jul 2005 00:28:33 +0200

mailx (1:8.1.2-0.20040524cvs-4) unstable; urgency=low

\* Fix documentation of sendmail options in the man page and in the mailx's usage output (closes: #285259).

-- Robert Luberda <robert@debian.org> Sat, 18 Dec 2004 13:58:28 +0100

mailx (1:8.1.2-0.20040524cvs-3) unstable; urgency=medium

\* fio.c: Fix segfault on wildcard expansion introduced in previous upload.

Thanks to Yuri D'Elia for noticing this (see bug#148389).

-- Robert Luberda <robert@debian.org> Sat, 13 Nov 2004 22:23:14 +0100

mailx (1:8.1.2-0.20040524cvs-2) unstable; urgency=medium

\* Bugfix release (closes: #278748):

+ fio.c: Use wordexpr() instead of calling /bin/echo not to allow executing external commands while expanding shell variables and wildcards.

+ names.c: isfileaddr function return false if '@', '!' or '%' i characters occur anywhere (e.g not only before the slash) in the recipient name.

-- Robert Luberda <robert@debian.org> Wed, 3 Nov 2004 20:46:39 +0100

mailx (1:8.1.2-0.20040524cvs-1) unstable; urgency=low

- \* New upstream version from OpenBSD CVS repository.
- \* debian/control: add exim4 alternative to mail-transport-agent dependency (closes: #248498).
- \* USD.doc/mail\*.nr: changed references from /usr/lib/Mail.rc to /etc/mail.rc.
- \* USD.doc/Makefile, debian/rules: generate and install manual.txt (like in the upstream version).
- \* Removed lintian override file, it's no longer needed.
- \* Add lintian source overrides for `cvsignore-file-in-source' and `source-contains-CVS-dir'.

-- Robert Luberda <robert@debian.org> Mon, 24 May 2004 23:03:47 +0200

mailx (1:8.1.2-0.20031014cvs-2) unstable; urgency=medium

- \* edit.c: if the external editor (called by ~e or ~v commands) fails for some reason, don't delete the temporary file if it has been modified. This partly fixes bug#148037.
- \* popen.c: print exit code of failed commands.
- \* quit.c: change message saying that mailbox was "removed" to "truncated" (closes: #196682); mailx does not remove mailboxes, see the entry for 1:8.1.2-0.20020316cvs-2 in this changelog for the reason.

-- Robert Luberda <robert@debian.org> Wed, 31 Mar 2004 23:42:19 +0200

mailx (1:8.1.2-0.20031014cvs-1) unstable; urgency=low

- \* New upstream version from OpenBSD.
- \* Fix problem with building on Hurd (closes: #213929).
- \* mail.1: removed reference to non-existent lockspool man page.
- \* Standards-Version: 3.6.1 (no changes).

-- Robert Luberda <robert@debian.org> Tue, 14 Oct 2003 20:48:51 +0200

mailx (1:8.1.2-0.20030521cvs-1) unstable; urgency=low

- \* New upstream version from OpenBSD.
- \* Added EXT/vis.[ch] files, needed for compiling this version.
- \* Minor fix in Makefile (closes: #181022).
- \* debian/control: Remove ending dot from synopsis line (lintian).
- \* Standards-Version: 3.5.10 (no changes).

-- Robert Luberda <robert@debian.org> Thu, 22 May 2003 21:12:21 +0200

mailx (1:8.1.2-0.20020411cvs-5) unstable; urgency=low

- \* cmd1.c: Check if return value of screensize() > 0 (closes: #170784).
- \* Support DEB\_BUILD\_OPTIONS=noopt instead of debug.
- \* Build with debhelper v4.
- \* Standards-Version: 3.5.8.

-- Robert Luberda <robert@debian.org> Sat, 7 Dec 2002 11:42:34 +0100

mailx (1:8.1.2-0.20020411cvs-4) unstable; urgency=low

- \* send.c: Always wait for a sendmail process, check its exit code and if non-zero, print a warning message to user and save original message to ~/dead.letter (closes: #145379).
- \* popen.c: Make wait\_child() return an exit code of the child.
- \* mail.1: s/^\.ne li\$/./ne/g to fix groff warnings.

-- Robert Luberda <robert@debian.org> Sat, 24 Aug 2002 22:15:23 +0200

mailx (1:8.1.2-0.20020411cvs-3) unstable; urgency=low

- \* aux.c: in function alter() do initialize tv\_usec part of the timeval structure used to set modification time on the mailbox file (closes: #152038).
- Thanks to John Girash for help.

-- Robert Luberda <robert@debian.org> Thu, 11 Jul 2002 05:21:34 +0200

mailx (1:8.1.2-0.20020411cvs-2) unstable; urgency=low

- \* collect.c: return from grabh() if stdin is not a terminal. This fixes the '-I' option (closes: #149005).

-- Robert Luberda <robert@debian.org> Tue, 18 Jun 2002 22:55:27 +0200

mailx (1:8.1.2-0.20020411cvs-1) unstable; urgency=high

- \* New upstream CVS snapshot, with only one change, which fixes potential security problem:
  - + collect.c:
    - Don't do tilde escapes unless we are in interactive mode. Now the behavior matches the man page...
- \* Many thanks to Michal Pajak for pointing out the problem.

-- Robert Luberda <robert@debian.org> Thu, 11 Apr 2002 19:07:59 +0200

mailx (1:8.1.2-0.20020316cvs-3) unstable; urgency=low

\* fio.c: fixed previous patch (closes: #140527,#140485).

-- Robert Luberda <robert@debian.org> Tue, 2 Apr 2002 07:14:58 +0200

mailx (1:8.1.2-0.20020316cvs-2) unstable; urgency=low

\* fio.c: Don't delete mailbox file, always truncate it, because liblockfile fails to remove the lock file if mailbox doesn't exist (closes: #111537).

-- Robert Luberda <robert@debian.org> Wed, 27 Mar 2002 09:20:08 +0100

mailx (1:8.1.2-0.20020316cvs-1) unstable; urgency=low

\* Applied patches from Arnaud Giersch <arnaud.giersch@free.fr> which fix outstanding problems:  
+ closes: #37104: Bug in all mailx\* (tested: <=mailx\_8.1.1-10).  
+ closes: #71759: mailx concatenates messages.  
MANY THANKS FOR YOUR HELP, Arnaud!

\* New upstream version from OpenBSD CVS repository:  
+ closes: #34752: mail causes segmentation fault when pushing Ctrl+C.  
\* This version uses strlcpy&strlcat functions, appropriate files were included in Debian patch.  
\* Added upstream changelog file, generated by hand from CVS logs using `cvs2cl --no-wrap -S'.  
\* Makefile: added -p option to install (preserve timestamps of installed files).

-- Robert Luberda <robert@debian.org> Tue, 26 Mar 2002 05:47:53 +0100

mailx (1:8.1.2-0.20010922cvs-3) unstable; urgency=low

\* debian/copyright: text of BSD license can be found in common-licences, so do not include it here...

-- Robert Luberda <robert@debian.org> Fri, 4 Jan 2002 08:13:30 +0100

mailx (1:8.1.2-0.20010922cvs-2) unstable; urgency=low

\* debian/copyright: removed 3th paragraph from the text of BSD license as suggested by Branden Robinson (closes: #123828).  
\* Upgraded standards version to 3.5.6 (no changes needed).

-- Robert Luberda <robert@debian.org> Sat, 22 Dec 2001 21:56:31 +0100

mailx (1:8.1.2-0.20010922cvs-1) unstable; urgency=low



\* New version from OpenBSD cvs repository:  
+ aux.c: In skin(), only add a space after a comma if there is actually a space in the input buffer. This prevents a rare buffer overflow on very long header lines... (closes: #108677). See #108677 for more info.  
+ aux.c: In skin() don't die if realloc() fails since its only purpose is to shrink the buffer, not expand it.

\* No other changes was made, so I think this version should go to woody as well.

-- Robert Luberda <robert@debian.org> Sun, 23 Sep 2001 21:42:22 +0200

mailx (1:8.1.2-0.20010705cvs-2) unstable; urgency=low

\* Removed exim from exim|mail-transport-agent dependency (closes: #106122).  
\* Added a lintian override file for virtual-package-without-real-package-dependency warning.  
\* Fix spelling in description of the package (closes: #106449).

-- Robert Luberda <robert@debian.org> Wed, 8 Aug 2001 23:31:21 +0200

mailx (1:8.1.2-0.20010705cvs-1) unstable; urgency=low

\* New version from OpenBSD cvs.  
\* Updated copyright and README.Debian files.  
\* Removed IOSAFE patch - it wasn't used.  
\* REPLYTO can be set in ~/.mailrc too.

-- Robert Luberda <robert@debian.org> Thu, 12 Jul 2001 18:58:01 +0200

mailx (1:8.1.2-0.20010319cvs-4) unstable; urgency=low

\* Applied patch from Tormod Volden <volden@iqe.phys.ethz.ch>, which adds "showname" option to mailx (closes: #96867).  
\* v7.local.c: Removed /var/spool/mail hack added by Paul in 1:8.1.1-10.1.1  
\* quit.c: Use lockf instead if flock.  
\* quit.c: Add missing newline in `Saved ...' message.  
\* Added doc-base support.  
\* Added versioned dependency on base-files, as suggested in upgrading-checklist for Debian Policy 3.5.4.  
\* Standards-Version: 3.5.5

-- Robert Luberda <robert@debian.org> Tue, 12 Jun 2001 23:43:10 +0200

mailx (1:8.1.2-0.20010319cvs-3) unstable; urgency=low

\* Applied some patches from FreeBSD:  
+ Add Relpy-To header if REPLYTO environment variable is set.

- + Add In-Reply-To header for replies (closes: #23115).
- \* When saving messages to mbox, print its real filename (closes: #68920).  
Thanks to Tollef Fog Heen for patch.
- \* /etc/mail.rc: Add Delivered-To to list of ignored headers.

-- Robert Luberda <robert@debian.org> Wed, 4 Apr 2001 00:20:57 +0200

mailx (1:8.1.2-0.20010319cvs-2) unstable; urgency=low

- \* Don't ask about (B)Cc: header twice (closes: #90822).

-- Robert Luberda <robert@debian.org> Fri, 23 Mar 2001 23:47:43 +0100

mailx (1:8.1.2-0.20010319cvs-1) unstable; urgency=medium

- \* New maintainer (closes: #90146).
- \* New upstream version from OpenBSD CVS repository.
- \* Security fix: don't install mailx binary setgid mail.  
Now the liblockfile library is used for mailbox locking.
- \* cmd3.c: Initialize head variable with NULLs. This should fix  
problem with garbage text when replying (closes: #84166).
- \* Add conflicts with older suidmanager.
- \* Helpfiles moved to /usr/share/mailx.
- \* Added support for DEB\_BUILD\_OPTIONS=debug,nostrip.
- \* Updated Standards-Version: 3.5.2
- \* Switch to debhelper v3.
- \* Updated Build-Depends field.
- \* Closing bugs fixed in NMUs (closes: #23901, #64238, #68725, #68745).

-- Robert Luberda <robert@debian.org> Thu, 22 Mar 2001 08:05:56 +0100

mailx (1:8.1.1-10.3) unstable; urgency=low

- \* debian/rules: added install dependancy to binary-arch (Closes: Bug#83361).

-- Edward Betts <edward@debian.org> Sun, 28 Jan 2001 14:40:05 -0700

mailx (1:8.1.1-10.2) unstable; urgency=low

- \* debian/control: Standards-Version updated.
- \* debian/control: Build-Depends added.
- \* debian/control: Depends line fixed (Closes: Bug#41909).
- \* debian/rules: rewritten, still uses debhelper.
- \* Makefile: man pages moved to /usr/share/man (Closes: Bug#80758).
- \* applied patch from Martin Schulze (Closes: Bug#23356, Bug#13756).
- \* applied patch from Ulf Jaenicke-Roessler <ujr@physik.phy.tu-dresden.de>  
(Closes: Bug#26757, Bug#40424).
- \* misc/mail.help, USD.doc/mail[1568].nr: changed references from

/usr/spool/mail to /var/mail (Closes: Bug#41910).  
\* send.c: Comment out bcc code (Closes: Bug#75232).  
\* pathnames.h: Change default shell from /bin/csh to /bin/sh.  
\* pathnames.h: Change default pager from /bin/more to  
/usr/bin/pager (Closes: Bug#41228).  
\* pathnames.h: Change default editor from /bin/ex to /usr/bin/editor  
(Closes: Bug#66385).  
\* debian/rules: stop using dh\_suidregister

-- Edward Betts <edward@debian.org> Sun, 14 Jan 2001 12:36:16 -0700

mailx (1:8.1.1-10.1.3) frozen unstable; urgency=high

\* Fix the security fix: only accept a couple environment variables  
instead of blindly using them all

-- Wichert Akkerman <wakkerma@debian.org> Tue, 8 Aug 2000 11:42:02 -0700

mailx (1:8.1.1-10.1.2) frozen unstable; urgency=high

\* Another security problem: refuse to get the interactive variable  
from the environment by explicitly setting it in the hashtable.

-- Wichert Akkerman <wakkerma@debian.org> Mon, 7 Aug 2000 12:36:10 -0700

mailx (1:8.1.1-10.1.1) frozen unstable; urgency=high

\* NMU to fix RC bug. Now accepts both /var/mail and /var/spool/mail as  
allowed places for setgid file manipulation. fixes:#64238

-- Paul Slootman <paul@debian.org> Thu, 8 Jun 2000 19:51:14 +0200

mailx (1:8.1.1-10.1) stable frozen unstable; urgency=high

\* Security fix for a GID=mail shell.

-- Daniel Jacobowitz <dan@debian.org> Sun, 4 Jun 2000 22:45:19 -0700

mailx (1:8.1.1-10) frozen unstable; urgency=high

\* correct major security flaw, patch from Alvaro Martinez Echevarria  
<alvaro@lander.es>, bug#23880, bug#23901

\* other potential buffer overflow, patch from Juan-Mariano de Goyeneche  
<jmseyas@selva.dit.upm.es>, bug #22937

-- Loic Prylli <Loic.Prylli@graville.fdn.fr> Sun, 28 Jun 1998 20:15:18 -0400

mailx (1:8.1.1-9) frozen unstable; urgency=high

- \* recompile without the signal handling workarounds (lo that eliminate critical bugs where message parts can be lost (#20798) and (#20558)

-- Loic Prylli <lprylli@graville.fdn.fr> Thu, 9 Apr 1998 02:11:26 +0200

mailx (1:8.1.1-8) frozen unstable; urgency=high

- \* previous patch broke most file accesses, corrected safe\_open (#20634)
- \* try to check every access to Fopen, change "a" into "w" for new files, to suit behaviour of safe\_open.

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 4 Apr 1998 22:01:19 +0200

mailx (1:8.1.1-7) frozen; urgency=medium

- \* security fix for tmp races patch from Martin Schulze (#20059)

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Mar 1998 22:52:35 +0100

mailx (1:8.1.1-6) unstable; urgency=low

- \* convert to debhelper
- \* changelog now compressed (bug#15431)
- \* removed .orig and .rej from source (bug#18409)

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 14 Feb 1998 14:34:22 +0100

mailx (1:8.1.1-5) unstable; urgency=low

- \* apply David Brown patch so mailx choose the right window size (#12197)
- \* correct Depends: in control file.

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 15 Nov 1997 00:30:38 +0100

mailx (1:8.1.1-4) unstable; urgency=high

- \* mailx was sending empty message, ignoring user input add clearerr when EAGAIN occur in "IOSAFE" code (#14263)

-- Loic Prylli <lprylli@graville.fdn.fr> Tue, 11 Nov 1997 20:22:35 +0100

mailx (1:8.1.1-3.1) unstable; urgency=low

- \* Non-maintainer release.
- \* Libc6 compile. (#11705)
- \* Install missing symlink to manpage. (#7274)

-- Martin Mitchell <martin@debian.org> Wed, 29 Oct 1997 04:34:39 +1100

mailx (1:8.1.1-3) unstable; urgency=low

- \* add dpkg --assert-working-epoch in preinst bug#6850
- \* add writing of pid in mailbox locking file
- \* fix:mailx was not removing temporary lock files

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 1 Feb 1997 11:44:04 +0100

mailx (1:8.1.1-2) unstable; urgency=low

- \* correct bug #2733 (occur when no space left) dans quit.c
- \* detection of From\_ lines with tring to match the date bug#2010
- \* corrected garble output bug #2284

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 28 Dec 1996 15:02:22 +0100

mailx (1:8.1.1-1) unstable; urgency=medium

- \* recreate completely starting from OpenBSD mail version (we loose a lot of extension but we have a working program now)
- \* OpenBSD base version is the last one in december 96
- \* rechange the numbering of version, so epoch 1+8.1 is from 4.4BSD, the last upstream digit is to change each time we update to a new openbsd version.
- \* fix the problem of longjmp inside signals inside stdio calls
- \* reincorporate a patch to be dot file locking+setgid safe
- \* some fix in signal handling

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Dec 1996 01:57:44 +0100

Mon Apr 29 17:21:42 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

- \* releasing 8.5.5-1
- \* added symlink /usr/bin/Mail -> /usr/bin/mailx

Thu Apr 25 23:55:36 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

- \* set version number to 8.5.5 because it has to supersede 8.1
- \* switched back to mailx-5.5-kw (see mailx-5.5-kw.diff.README)

\* no POP support

mailx 8.1 Debian 5 - 10/19/95 Sven Rudolph <sr1@inf.tu-dresden.de>

- \* uses now BSD signal emulation (/usr/include/bsd/signal.h)
- \* added virtual package names in Depends: and Provides fields (Bug#1460)
- \* added Section: field
- \* created symlink for mailx manpage (Bug#1114)

mailx 8.1 Debian 4 - 5/20/95 Carl Streeter <streeter@cae.wisc.edu>

- \* Added diffs from Delman Lee <delman@mipg.upenn.edu>:

Hi! I got mailx-8.1-3 from the Linux Debian distribution, and have added a "hold-pop" option to hold messages on the POP server after retrieving them. (Also fixed a minor bug with mailx thinking that there is mail even if the POP mailbox is empty. Code around stat() below.)

mailx 8.1 Debian 3 - 4/18/95 Carl Streeter <streeter@cae.wisc.edu>

- \* Fixed control file to depend on smail|sendmail. Updated to latest guidelines

bsd-mailx source: source-contains-cvs-control-dir

Source: bsd-mailx

Section: mail

Priority: standard

Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>

XSBC-Original-Maintainer: Robert Lubberda <robert@debian.org>

Standards-Version: 3.9.4

Build-Depends: debhelper (>= 9),

groff,

libbsd-dev (>= 0.3),

liblockfile-dev (>= 1.05)

Vcs-Git: git://anonscm.debian.org/users/robert/bsd-mailx.git

Vcs-Browser: http://anonscm.debian.org/gitweb/?p=users/robert/bsd-mailx.git

Package: bsd-mailx

Architecture: any

Depends: base-files (>= 2.2.0),

default-mta | mail-transport-agent,

\${misc:Depends},

\${shlibs:Depends}

Provides: mail-reader, mailx

Breaks: mailutils (<< 1:1.1+dfsg1-4), mailx (<< 1:20071201)

Replaces: mailx (<< 1:20071201)

Description: simple mail user agent

bsd-mailx is the traditional simple command-line-mode mail user agent.

Even if you don't use it, it may be required by other programs.

.

The /usr/bin/mail command provided by this package is a very simple one,

and does not include many features that can be found in more advanced

mail user agents.

.

For example `bsd-mailx` DOES NOT support:

- MIME (i.e. no attachments, no UTF-8 or other charsets support);
- SMTP protocol (`/usr/sbin/sendmail` interface only is used);
- POP3/IMAP (`bsd-mailx` reads local mailboxes only);
- maildir format (traditional mbox only format is supported).

.

If the above features are needed, please consider installing another package providing similar `/usr/bin/mail` interface:

- `heirloom-mailx` package,
- or `mailutils` package.

# 1.180 procps 3.3.16

## 1.180.1 Available under license :

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Version 2, June 1991

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# 1.181 cpio 2.13

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# 1.182 iconv 2.31

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

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```
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```

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## 1.183 nettle 3.5.1

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Version 3, 29 June 2007

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# 1.188 idna 11.0.0

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# 1.190 kmod 26

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Version 2.1, February 1999

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