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1.352 tzdata 2018d-1
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1.353 mpclib 1.1.0-1.0
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1.354 sysklogd 1.5.1-r0
1.354.1 Available under license
1.355 ppp 2.4.7-r0
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1.356 iptables 1.6.2-2.0
1.356.1 Available under license
1.357 cracklib 2.9.5-r0
1.357.1 Available under license
1.358 dhcp 4.4.1-r0
1.358.1 Available under license
1.359 libgcrypt 1.8.2-1.0
1.359.1 Available under license
1.360 libgpg-error 1.27-0
1.360.1 Available under license
1.361 berkeley-db 5.3.28-r0
1.361.1 Available under license
1.362 libnl3 3.4.0-1.0
1.362.1 Available under license
1.363 xz 5.2.3-0
1.363.1 Available under license

1.364 libuv 1.11.0-1

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1.365 mpfr4 3.1.5-1

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1.366 grub2 2.04

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1.367 eudev 3.2.9

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1.368 yajl 2.1.0

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1.369 libjitterentropy 2.2.0

1.369.1 Available under license

1.370 cryptography 3.0

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1.371 cgreen 1.0.0-2c146fa3b5e33ecd5f4e513360f576f02323405b

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1.372 python-ply 3.11-1.0

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1.381 pyasn1 0.4.8

1.381.1 Available under license

1.382 python-django 1.11.11-1.el7ost

1.382.1 Available under license

1.383 libgcc 1:8.2.0-1ubuntu2~18.04

1.384 libstd-c 8.2.0-1ubuntu2~18.04
1.385 strongswan 5.6.3-1ubuntu2
1.385.1 Available under license
1.386 packaging 16.8
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1.387 netifaces 0.10.9-2.ph4
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1.388 pysocks 1.7.1
1.388.1 Available under license
1.389 pyrsistent 0.15.7
1.389.1 Available under license
1.390 speedtest-cli 2.1.2
1.390.1 Available under license
1.391 setuptools-scm 3.3.3
1.391.1 Available under license
1.392 more-itertools 8.2.0
1.392.1 Available under license
1.393 prettytable 0.7.2-7.ph4
1.393.1 Available under license
1.394 jsonpatch 1.25
1.394.1 Available under license
1.395 python3-asn1crypto 1.3.0
1.395.1 Available under license
1.396 cryptography 3.0
1.396.1 Available under license
1.397 rfc3987 1.3.8
1.397.1 Available under license
1.398 py 1.11.0
1.398.1 Available under license
1.399 zipp 0.6.0
1.399.1 Available under license
1.400 python-setuptools 45.2.0
1.400.1 Available under license
1.401 libsodium 1.0.16-1.el7
1.401.1 Available under license
1.402 ndg-httpsclient 0.5.1-4.ph4
1.402.1 Available under license
1.403 idna 11.0.0
1.403.1 Available under license

1.404 packaging 19.2

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1.405 nmap 7.60-1ubuntu5

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1.406 tacacs-plus 2.6

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1.407 jsonpointer 2.0

1.407.1 Available under license

1.408 python-pip 22.0.4

1.408.1 Available under license

1.409 sbsigntool 0.6-951ee95a301674c046f55330cd7460e1314deff2-0ubuntu4~12.04.1

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1.410 futures 3.3.0

1.410.1 Available under license

1.411 lxc 3.0.1-0ubuntu1~18.04.1

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1.412 markupsafe 1.1.1

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1.413 cloud-init 22.1

1.413.1 Available under license

1.414 urllib3 1.25.7

1.414.1 Notifications

1.414.2 Available under license

1.415 python-pbr 3.1.1-2.el7ost

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1.416 paramiko 1.17.6-2.ph1

1.416.1 Available under license

1.417 libc 2.27-3ubuntu1

1.418 shim 0.8-0ubuntu2

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1.419 six 1.14.0

1.419.1 Available under license

1.420 pathlib 2.3.5

1.420.1 Available under license

1.421 importlib-metadata 1.5.2

1.421.1 Available under license

1.422 jinja2 2.11.3

1.422.1 Available under license

1.423 python-pysocks 1.6.8-5.el7

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1.424 pycparser 2.20

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1.425 python-requests 2.23.0

1.425.1 Available under license

1.426 tpm-tools 1.3.8-6.el7

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1.427 ply 3.11

1.427.1 Available under license

1.428 python-setuptools 56.0.0

1.428.1 Available under license

1.429 distro 1.5.0-1.ph4

1.429.1 Available under license

1.430 python-certifi 2019.11.28

1.430.1 Available under license

1.431 arptables 0.0.4-7.el7

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1.432 attrs 19.3.0

1.432.1 Available under license

1.433 ncclient 0.6.9

1.433.1 Available under license

1.434 cgroup-lite 1.11-ubuntu14.04.2

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1.435 oauthlib 2.0.6

1.435.1 Available under license

1.436 ndg-httpsclient 0.5.1-4.ph4

1.436.1 Available under license

1.437 webcolors 1.8.1

1.437.1 Available under license

1.438 python-lxml 4.5.0

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1.439 pyopenssl 19.1.0

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1.440 ecdsa 0.15

1.440.1 Available under license

1.441 walinuxagent 2.2.52

1.441.1 Available under license

1.442 mtools 4.0.18-5.el7

1.442.1 Available under license
1.443 cffi 1.14.0
1.443.1 Available under license
1.444 jsonschema 3.2.0
1.444.1 Available under license
1.445 example 21.12
1.445.1 Available under license

1.1 libjpeg 6b

1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.1.2 Available under license :

The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
==========

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION
ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.

ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
 install.doc How to configure and install the IJG software.
 usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
  rdjpgcom, and wrjpgcom.
 *.1 Unix-style man pages for programs (same info as usage.doc).
 wizard.doc Advanced usage instructions for JPEG wizards only.
 change.log Version-to-version change highlights.
Programmer and internal
 documentation:
 libjpeg.doc How to use the JPEG library in your own programs.
 example.c Sample code for calling the JPEG library.
 structure.doc Overview of the JPEG library's internal structure.
 filelist.doc Road map of IJG files.
 coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
  JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive

compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the
hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments
in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
==========

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3. You may not pretend that you wrote this software. If you use it in a
program, you
must acknowledge somewhere in your documentation that
you've used the IJG code.

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must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed,
 then the accompanying
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(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
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These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
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assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of
 L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic
 coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
  "The Graphics Interchange Format(c) is the Copyright property of
  CompuServe Incorporated. GIF(sm) is a Service Mark property of
  CompuServe Incorporated."

REFERENCES
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We
 highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
 Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
 Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more
leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The
JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still
Images, Part 2: Compliance testing" and has document
numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation
scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't
have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu

with body
 send usenet/news.answers/jpeg-faq/part1
 send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
 notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.
 (For example, none
of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely

supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether
SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without
sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2 pppoe 3.11

1.2.1 Available under license :

pppoe: a PPP-over-Ethernet redirector for pppd
Copyright (C) 2001-2012 Roaring Penguin Software Inc.
LIC: GPL

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Version 2, June 1991

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1.3 hostap-utils 0.4.7

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1.5 vim 7.4

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1.7 libdnet 1.12

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1.13 pycrypto 2.6.1

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1.14 keymaps 1.0

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

1.20 popt 1.16

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1.23 base-passwd 3.5.29

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1.25 libyaml 0.1.6

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1.30 pam 1.3.0

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1.31 libpcap 1.8.1

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1.32 jansson 2.9

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1.33 ncclient 0.5.3

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1.34 libusb 1.0.21

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Open-vm-tools v10.1.5

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> icu4c-4.4.1

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

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

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

distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or
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Accompany the work with the complete corresponding
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will
operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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1.39 net-tools 1.60-26

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1.40 sshpass 1.05

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1.41 update-rc-d 0.7

1.41.1 Available under license :

```
#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
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#
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initd="/etc/init.d"
etcd="/etc/rc"
notreally=0
force=0
dostart=0
```

```
verbose=0

usage()
{
 cat >&2 <<EOF
usage: update-rc.d [-n] [-f] [-r <root>] <basename> remove
      update-rc.d [-n] [-r <root>] [-s] <basename> defaults [NN | sNN kNN]
      update-rc.d [-n] [-r <root>] [-s] <basename> start|stop NN runlvl [runlvl] [...] .
  -n: not really
  -f: force
  -v: verbose
  -r: alternate root path (default is
 /)
  -s: invoke start methods if appropriate to current runlevel
EOF
}

checklinks()
{
 local i dn fn remove=0
 if [ "x$1" = "xremove" ]; then
  echo " Removing any system startup links for $bn ..."
  remove=1
 fi

 for i in 0 1 2 3 4 5 6 7 8 9 S; do
  dn="${etcd}${i}.d"
  if [ ! -d $dn ]; then
   continue;
  fi
  for f in ${dn}/[SK]??${bn}; do
   if [ -L $f ]; then
    if [ $remove -eq 0 ]; then
     return 1
    fi
    echo "  $f"
    if [ $notreally -eq 1 ]; then
     continue
    fi
    rm $f
   fi
  done
 done

 return 0
}

dolink()
```

```
{
 startstop=$1
 lev=`echo $2 | cut -d/ -f1`
 nn=`echo $2 | cut -d/ -f2`
 fn="${etcd}${lev}.d/${startstop}${nn}${bn}"
 [ $verbose -eq 1 ] && echo "  $fn -> ../init.d/$bn"
 if [ $notreally -eq 0 ]; then
  mkdir -p `dirname $fn`
  ln -s ../init.d/$bn $fn
 fi
 if [ $dostart -eq 1 ] && [ $startstop = "S" ] && [ $lev = $RUNLEVEL ]; then
  $fn start || true
 fi
}

makelinks()
{
 if ! checklinks; then
  echo " System startup links for $initd/$bn already exist."
  if
 [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
   ${etcd}${RUNLEVEL}.d/S??${bn} restart || true
  fi
  exit 0
 fi

 echo " Adding system startup for $initd/$bn."

 for i in $startlinks; do
  dolink S $i
 done
 for i in $stoplinks; do
  dolink K $i
 done
}

while [ $# -gt 0 ]; do
 case $1 in
  -n) notreally=1
   shift
   continue
   ;;
  -v) verbose=1
   shift
   continue
   ;;
  -f) force=1
   shift
```

```
  continue
  ;;
 -s) dostart=1
  shift
  continue
  ;;
 -r)     shift
  root=$1
  initd="${root}${initd}"
  etcd="${root}${etcd}"
  shift
  ;;
 -h | --help)
  usage
  exit 0
  ;;
 -*)
  usage
  exit 1
  ;;
 *)
  break
  ;;
 esac
done

if [ $# -lt 2 ]; then
 usage
 exit 1
fi

bn=$1
shift

sn=$initd/$bn
if [ -L "$sn" -a -n "$root" ]; then
 if which readlink >/dev/null; then
  while true; do
   linksn="$(readlink "$sn")"
   if [ -z "$linksn" ]; then
    break
   fi

   sn="$linksn"
   case "$sn" in
    /*) sn="$root$sn"
 ;;
    *)  sn="$initd/$sn" ;;
```

```
  esac
 done
else
 echo "update-rc.d: readlink tool not present, cannot check whether \
   $sn symlink points to a valid file." >&2
fi
fi

if [ $1 != "remove" ]; then
 if [ ! -f "$sn" ]; then
  echo "update-rc.d: $initd/$bn: file does not exist" >&2
  exit 1
 fi
else
 if [ -f "$sn" ]; then
  if [ $force -eq 1 ]; then
   echo "update-rc.d: $initd/$bn exists during rc.d purge (continuing)" >&2
  else
   echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
   exit 1
  fi
 fi
fi

if [ $dostart -eq 1 ]; then
 #RUNLEVEL=`sed 's/.*\[\(.*\)\]/\1/' < /proc/1/cmdline`
 RUNLEVEL=`runlevel | cut -d" " -f2`
 if [ "x$RUNLEVEL" = "x" ]; then
  echo "Unable to determine current runlevel" >&2
  exit 1
 fi
fi

case $1 in
 remove)
  checklinks "remove"
  ;;

 defaults)
  if [ $# -gt 3 ]; then
   echo "defaults takes only one or two arguments" >&2
   usage
   exit 1
  fi
  start=20
  stop=20
  if [ $# -gt 1 ]; then
   start=$2
```

```
  stop=$2
 fi
 if
[ $# -gt 2 ]; then
  stop=$3
 fi
 start=`printf %02d $start`
 stop=`printf %02d $stop`
 stoplinks="0/$stop 1/$stop 6/$stop"
 startlinks="2/$start 3/$start 4/$start 5/$start"
 makelinks
 ;;

start | stop)
 while [ $# -gt 0 ]; do
  if [ $1 = "start" ]; then
   letter=S
  elif [ $1 = "stop" ]; then
   letter=K
  else
   echo "expected start or stop" >&2
   usage
   exit 1
  fi
  shift
  NN=`printf %02d $(expr $1 + 0)`
  shift
  while [ "x$1" != "x." ]; do
   if [ $# -eq 0 ]; then
    echo "action with list of runlevels not terminated by \`." >&2
    exit 1
   fi
   level=$1
   shift
   case $letter in
    S) startlinks="$startlinks $level/$NN" ;;
    K) stoplinks="$stoplinks $level/$NN" ;;
   esac
  done
  shift
 done
 makelinks
 ;;

*)
 usage
 exit 1
 ;;
```

esac

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Version 2, June 1991

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1.42 dosfs-tools 4.1

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/* FAT32, VFAT, Atari format support, and various fixes additions May 1998
* by Roman Hodek <Roman.Hodek@informatik.uni-erlangen.de> */
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1.43 iputils s20161105

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1.46 radvd 1:2.11-1

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Upstream author: Pekka Savola <pekkas@netcore.fi>

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1.47 urllib3 1.22

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Contributions to the urllib3 project

Creator & Maintainer

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Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
 * Bugfixes, Improvements and Test coverage

*
 Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>

 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield
 <http://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
 * App Engine environment tests.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded requests like GET.

* James
 Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency improvements, spelling fixes,
 Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
 * Created selectors
 backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>

* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

1.48 enum34 1.1.6

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1.53 python-idna 2.6

1.54 libtspi 0.3.13-3

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1.60 protobuf-c 1.3.0

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1.62 python-pyopenssl 17.5.0

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1.63 c-ares 1.12.0

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1.64 python3-asn1crypto 0.24.0

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1.66 ethtool 4.13

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1.74 tar 1.30

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Version 3, 29 June 2007

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whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

```
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
 "-*- buffer-read-only: t -*- vi" \
 ":set ro:";
  print "   It is created automatically by copying.awk.";
  print "   Modify copying.awk instead.  <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
```

```
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (char *, int);"
  print ""
  print "static void show_warranty_command (char *, int);"
  print ""
  print "void _initialize_copying (void);"
  print ""
  print "static void";
  print "show_copying_command (char *ignore, int from_tty)";
  print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  if ($0 ~ //)
    {
      printf "  printf_filtered (\"\\n\");\n";
    }
  else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
/^[  ]*15\.
 Disclaimer of Warranty\.[  ]*$/ {
  print "}";
  print "";
  print "static void";
  print "show_warranty_command (char *ignore, int from_tty)";
  print "{";
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
  if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
END {
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
```

```
  print "  add_cmd (\"copying\", no_set_class, show_copying_command,";
  print "    _(\"Conditions for redistributing copies of GDB.\"),";
  print "    &showlist);";
  print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,";
  print "    _(\"Various kinds of warranty you do not have.\"),";
  print "    &showlist);";
  print "";
  print "  /* For old-timers, allow \"info copying\", etc.  */";
  print "  add_info
 (\"copying\", show_copying_command,";
  print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
  print "     _(\"Various kinds of warranty you do not have.\"));";
  print "}";
 }
#! /usr/bin/env python

# Copyright (C) 2011-2017 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
#
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# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
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"""copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review
 the output is:
  % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
```

```
import datetime
import os
import os.path
import subprocess


def get_update_list():
  """Return the list of files to update.

  Assumes that the current working directory when called is the root
  of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
  the files are relative to that root directory.
  """
  result = []
  for gdb_dir in ('gdb', 'sim', 'include/gdb'):
     for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
           reldirname = "%s/%s" % (root, dirname)
           if (dirname in EXCLUDE_ALL_LIST
              or reldirname in EXCLUDE_LIST
              or reldirname in NOT_FSF_LIST
              or reldirname in BY_HAND):
              # Prune this directory from our search list.
              dirs.remove(dirname)
         for filename in files:
           relpath = "%s/%s" % (root, filename)
           if (filename in EXCLUDE_ALL_LIST
              or relpath in EXCLUDE_LIST
              or relpath in NOT_FSF_LIST
              or relpath in BY_HAND):
              # Ignore this file.
              pass
           else:
              result.append(relpath)
  return result


def update_files(update_list):
  """Update the copyright header of the files in the given list.

  We use gnulib's update-copyright script for that.
  """
  # We want to use year intervals in the copyright notices, and
  # all years should be collapsed to one single year interval,
  # even if there are "holes" in the list of years found in the
  # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
  os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
```

```
  # Perform the update, and save the output in a string.
  update_cmd
 = ['bash', 'gdb/gnulib/import/extra/update-copyright']
  update_cmd += update_list

  p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                       stderr=subprocess.STDOUT)
  update_out = p.communicate()[0]

  # Process the output.  Typically, a lot of files do not have
  # a copyright notice :-(.  The update-copyright script prints
  # a well defined warning when it did not find the copyright notice.
  # For each of those, do a sanity check and see if they may in fact
  # have one.  For the files that are found not to have one, we filter
  # the line out from the output, since there is nothing more to do,
  # short of looking at each file and seeing which notice is appropriate.
  # Too much work! (~4,000 files listed as of 2012-01-03).
  update_out = update_out.splitlines()
  warning_string = ': warning: copyright statement not found'
  warning_len = len(warning_string)

  for line in update_out:
     if line.endswith('\n'):

      line = line[:-1]
     if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
           print line
     else:
        # Unrecognized file format. !?!
        print "*** " + line


def may_have_copyright_notice(filename):
  """Check that the given file does not seem to have a copyright notice.

  The filename is relative to the root directory.
  This function assumes that the current working directory is that root
  directory.

  The algorigthm is fairly crude, meaning that it might return
  some false positives.  I do not think it will return any false
  negatives...  We might improve this function to handle more
  complex cases later...
  """
  # For now, it may have a copyright notice if we find the word
  # "Copyright" at the (reasonable) start of the given file, say
```

```
  # 50 lines...
  MAX_LINES = 50

  fd = open(filename)

  lineno = 1
  for line in fd:
       if 'Copyright' in line:
          return True
       lineno += 1
       if lineno > 50:
          return False
  return False


def main ():
  """The main subprogram."""
  if not os.path.isfile("gnulib/import/extra/update-copyright"):
     print "Error: This script must be called from the gdb directory."
  root_dir = os.path.dirname(os.getcwd())
  os.chdir(root_dir)

  update_list = get_update_list()
  update_files (update_list)

  # Remind the user that some files need to be updated by HAND...
  if BY_HAND:
     print
     print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
     for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

############################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the
 script.
#
############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
```

```
  'gdb/nat/glibc_thread_db.h',
  'gdb/CONTRIBUTE',
  'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere.  Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
  "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
  # These
 files are sensitive to line numbering.
  "gdb/testsuite/gdb.base/step-line.inp",
  "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers.  This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
  "gdb/doc/gdb.texinfo",
  "gdb/doc/refcard.tex",
  "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c",
```

"sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
"sim/arm/arminit.c",
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-accfp.c",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",
Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h",
"sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",

```
    "sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
   "sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
   "sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
   "sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
   "sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
   main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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license document, but changing it is not allowed.
@end display

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to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom
```

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

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish
to avoid the special danger that patents applied to a free program
could make it effectively proprietary.
To prevent this, the GPL
assures that patents cannot be used to render the program non-free.

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

``The Program'' refers to any copyrightable work licensed under this
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``recipients'' may be individuals or organizations.

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

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

To ``propagate'' a
work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

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

An interactive user interface displays ``Appropriate Legal Notices'' to

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

@item Source Code.

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

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

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

The ``Corresponding Source'' for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms
 and other parts of the work.

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

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

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

@enumerate a
@item
The work must carry prominent notices stating that you modified it,
and giving a relevant date.

@item
The work must carry prominent notices stating that it is released
under this License and any conditions added under section 7. This
requirement modifies the requirement in section 4 to ``keep intact all
notices''.

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

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

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

@item Conveying Non-Source Forms.

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

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

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

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

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the

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

@item
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.

@end enumerate

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

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

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

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

specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User
Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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

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@end enumerate

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must place, in the relevant source files, a statement of the
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an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the
best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

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

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

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it under the terms of the GNU General Public License as published by
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should have received a copy of the GNU General Public License
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@end smallexample

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

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

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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You should also get your employer (if you work as a programmer) or school,
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@c man end
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public
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To protect your rights, we need to make restrictions that forbid
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Most GNU software, including some libraries, is covered by the ordinary
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designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this

function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

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

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

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

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

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

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

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1.76 strace 4.20

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1.77 boost 1.66.0

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1.78 python-certifi 2018.1.18

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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#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
This packge contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
Metadata-Version: 1.1
Name: certifi
Version: 2018.1.18
Summary: Python package for providing Mozilla's CA Bundle.
Home-page: http://certifi.io/
Author: Kenneth Reitz
Author-email: me@kennethreitz.com
License: MPL-2.0
Description: Certifi: Python SSL Certificates
    ==============================

    `Certifi`_ is a carefully curated collection of Root Certificates for
    validating the trustworthiness of SSL certificates while verifying the identity
    of TLS hosts. It has been extracted from the `Requests`_ project.

    Installation

``certifi`` is available on PyPI. Simply install it with ``pip``::

    $ pip install certifi

Usage

To reference the installed certificate authority (CA) bundle, you can use the
built-in function::

    >>> import certifi

    >>> certifi.where()
    '/usr/local/lib/python2.7/site-packages/certifi/cacert.pem'

Enjoy!

1024-bit Root Certificates
~~~~~~~~~~~~~~~~~~~~~~~~~~

Browsers and certificate authorities have concluded that 1024-bit keys are
unacceptably weak for certificates, particularly root certificates. For this
reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its
bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key)
certificate from the same CA. Because Mozilla removed these certificates from
its bundle, ``certifi`` removed them as well.

In previous versions, ``certifi`` provided the ``certifi.old_where()`` function
to intentionally re-add the 1024-bit roots back into your bundle. This was not
recommended in production and therefore was removed. To assist in migrating old
code, the function ``certifi.old_where()`` continues to exist as an alias of

``certifi.where()``. Please update your code to use ``certifi.where()``
instead. ``certifi.old_where()`` will be removed in 2018.

.. _`Certifi`: http://certifi.io/en/latest/
.. _`Requests`: http://docs.python-requests.org/en/latest/

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: Mozilla Public License 2.0 (MPL 2.0)
Classifier: Natural Language :: English
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
~~~~~~~~~~~~~~~~~~~~~~~~~~

Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6

1.79 cloud-init 0.7.6

1.79.1 Available under license :

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Version 3, 29 June 2007

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Name: cloud-init
Maintainer: Scott Moser <scott.moser@canonical.com>
Source: https://launchpad.net/cloud-init

This package was debianized by Soren Hansen <soren@ubuntu.com> on
Thu, 04 Sep 2008 12:49:15 +0200 as ec2-init. It was later renamed to
cloud-utils by Scott Moser <scott.moser@canonical.com>

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concluded that weaker conditions might promote sharing better.

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

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

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1.91 trousers 0.3.13

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible
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1.96 e2fsprogs 1.43.8

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===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
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-   trivial database library - private includes
-
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```
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 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice
```

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

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

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on 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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```
DAMAGE.
#
# 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 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/

From the original distribution:

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libet and libss libraries for more information.

The most recent officially distributed version can be found at
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(tytso@mit.edu)
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package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.97 python-cryptography 2.1.4

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1.102 libjansson4 amd64:2.9-1

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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
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	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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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://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 https://www.python.org/psf/) was formed, a non-profit organization created
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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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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Sockets

The :mod:`socket` module uses the
functions, :func:`getaddrinfo`, and
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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose

text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration
 including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host

ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many
small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost;
we aren't
intentionally leaving anyone out.

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the

Library, and explaining
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with the library.

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without
limitation in the term "modification".)

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact

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You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of

this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

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c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying

Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

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1.106 glibc 2.27

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@subheading Preamble

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or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation
will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and

is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative
of the original library. The ordinary
General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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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@enumerate 0
@item
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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,
either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

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

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

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You may copy and distribute
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and you may at your option offer warranty protection in exchange for a
fee.

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

@enumerate a
@item
The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If
identifiable sections
of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

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

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

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

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

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

@item
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.

@item

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.

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

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

this License. Also, you must do one
of these things:

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

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

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

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

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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

@smallexample
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@end
smallexample

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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

Preamble

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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Gocheck - A rich testing framework for Go

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1.110 mtd-utils 2.0.1

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1.111 json-c 0.13

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Files: install-sh
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This script is compatible with the BSD install script, but was written
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-- vile: txtmode file-encoding=utf-8
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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $

1.116 prettytable 0.7.2

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1.117 zookeeper 3.4.9

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1.118 libtasn 4.13

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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for
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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
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==========
Advice for new contributors
==========

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing`
   tutorial will give you an introduction to the tools and the workflow.

First steps
==========

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

 The code that you write belongs to you or your employer. If your
 contribution is more than one or two lines of code, you need to sign the
 `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough
 explanation.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you
can reproduce it and it seems valid, make a note that you confirmed the bug
and accept the ticket. Make sure the ticket is filed
under the correct
component area. Consider writing a patch that adds a test for the bug's
behavior, even if you don't fix the bug itself. See more at
:ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity
with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the
changes a patch makes, and keep an eye out for syntax that is incompatible
with older but still supported versions of Python. :doc:`Run the tests
</internals/contributing/writing-code/unit-tests>` and make sure they pass.
Where possible and relevant, try them out on a database other than SQLite.
Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the
time it gets reviewed. Make sure it still applies cleanly and functions as
expected. Simply updating a patch is both useful and important! See more on
:doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find
a typo? Do you think that something should be clarified? Go ahead and
suggest a documentation patch! See also the guide on
:doc:`writing-documentation`.

.. note::

    The `reports page`_ contains links to many useful Trac queries, including
    several that are useful for triaging tickets and reviewing patches as
    suggested above.

    .. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/
.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject
  area that you care about, that you are familiar with, or
  that you want to learn about**

  You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

  Trac isn't an absolute; the context is just as important as the words.
  When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

  It's easier to get feedback on a little issue than on a big one. See the
  `easy pickings`_.

* **If you're going to engage in a big task, make sure that your idea has
  support first**

  This means getting
  someone else to confirm that a bug is real before you fix
  the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

  Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

  If you're really not certain if a ticket is ready, don't mark it as
  such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

  Focus on one or two tickets, see them through from
  start to finish, and
  repeat. The shotgun approach of taking on lots of tickets and letting some
  fall by the wayside ends up doing more harm than good.

* **Be rigorous**

  When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch
  doesn't have docs and tests, there had better be a good reason. Arguments
  like "I couldn't find any existing tests of this feature" don't carry much
  weight--while it may be true, that means you have the extra-important job of
  writing the very first tests for that feature, not that you get a pass from
  writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
===

1. **This ticket I care about has been ignored for days/weeks/months! What can
   I do to get it committed?**

   First off, it's not personal. Django is entirely developed by volunteers
   (except the Django fellow), and sometimes folks just don't have time. The
   best thing to do is to
  send a gentle reminder to the |django-developers|
   mailing list asking for review on the ticket, or to bring it up in the
   `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC
   myself?**

   Short answer: No. It's always better to get another set of eyes on a
   ticket. If you're having trouble getting that second set of eyes, see
   question 1, above.

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1.120 dnsmasq 2.79

1.120.1 Available under license :

Q: Why does dnsmasq open UDP ports >1024 as well as port 53.
Is this a security problem/trojan/backdoor?

A: The high ports that dnsmasq opens are for replies from the upstream nameserver(s). Queries from dnsmasq to upstream nameservers are sent from these ports and replies received to them. The reason for doing this is that most firewall setups block incoming packets _to_ port 53, in order to stop DNS queries from the outside world. If dnsmasq sent its queries from port 53 the replies would be _to_ port 53 and get blocked.

This is not a security hole since dnsmasq will only accept replies to that port: queries are dropped. The replies must be to outstanding queries which dnsmasq has forwarded, otherwise they are dropped too.

Addendum: dnsmasq now has the option "query-port" (-Q), which allows you to specify the UDP port to be used for this purpose. If not specified, the operating system will select an available port number just
as it did before.

Second addendum: following the discovery of a security flaw in the DNS protocol, dnsmasq from version 2.43 has changed behavior. It now uses a new, randomly selected, port for each query. The old default behaviour (use one port allocated by the OS) is available by setting --query-port=0, and setting the query port to a positive value still works. You should think hard and know what you are doing before using either of these options.

Q: Why doesn't dnsmasq support DNS queries over TCP? Don't the RFC's specify that?

A: Update: from version 2.10, it does. There are a few limitations: data obtained via TCP is not cached, and source-address or query-port specifications are ignored for TCP.

Q: When I send SIGUSR1 to dump the contents of the cache, some entries have no IP address and are for names like mymachine.mydomain.com.mydomain.com. What are these?

A: They are negative entries: that's what the N flag means. Dnsmasq asked an upstream nameserver to resolve that address and it replied "doesn't exist, and won't exist for <n> hours" so dnsmasq saved that information so that if _it_ gets asked the same question it can answer directly without having to go back to the upstream server again. The strange repeated domains result from the way resolvers search short names. See "man resolv.conf" for details.

Q: Will dnsmasq compile/run on non-Linux systems?

A: Yes, there is explicit support for *BSD and MacOS X and Solaris. There are start-up scripts for MacOS X Tiger and Panther in /contrib. Dnsmasq will link with uclibc to provide small binaries suitable for use in embedded systems such as routers. (There's special code to support machines with flash filesystems and no battery-backed RTC.) If you encounter make errors with *BSD, try installing gmake from

ports and building dnsmasq with "make MAKE=gmake"
For other systems, try altering
the settings in config.h.

Q: My company's nameserver knows about some names which aren't in the public DNS. Even though I put it first in /etc/resolv.conf, it doesn't work: dnsmasq seems not to use the nameservers in the order given. What am I doing wrong?

A: By default, dnsmasq treats all the nameservers it knows about as equal: it picks the one to use using an algorithm designed to avoid nameservers which aren't responding. To make dnsmasq use the servers in order, give it the -o flag. If you want some queries sent to a special server, think about using the -S flag to give the IP address of that server, and telling dnsmasq exactly which domains to use the server for.

Q: OK, I've got queries to a private nameserver working, now how about reverse queries for a range of IP addresses?

A: Use the standard DNS convention of <reversed address>.in-addr.arpa. For instance to send reverse queries on the range 192.168.0.0 to

192.168.0.255 to a nameserver at 10.0.0.1 do
server=/0.168.192.in-addr.arpa/10.0.0.1
Note that the "bogus-priv" option take priority over this option, so the above will not work when the bogus-priv option is set.

Q: Dnsmasq fails to start with an error like this: "dnsmasq: bind failed: Cannot assign requested address". What's the problem?

A: This has been seen when a system is bringing up a PPP interface at boot time: by the time dnsmasq start the interface has been created, but not brought up and assigned an address. The easiest solution is to use --interface flags to specify which interfaces dnsmasq should listen on. Since you are unlikely to want dnsmasq to listen on a PPP interface and offer DNS service to the world, the problem is solved.

Q: I'm running on BSD and dnsmasq won't accept long options on the command line.

A: Dnsmasq when built on some BSD systems doesn't use GNU getopt by default. You can either just use the
single-letter options or
change config.h and the Makefile to use getopt-long. Note that options in /etc/dnsmasq.conf must always be the long form, on all platforms.

Q: Names on the internet are working fine, but looking up local names
from /etc/hosts or DHCP doesn't seem to work.

A: Resolver code sometime does strange things when given names without
any dots in. Win2k and WinXP may not use the DNS at all and just
try and look up the name using WINS. On unix look at "options ndots:"
in "man resolv.conf" for details on this topic. Testing lookups
using "nslookup" or "dig" will work, but then attempting to run
"ping" will get a lookup failure, appending a dot to the end of the
hostname will fix things. (ie "ping myhost" fails, but "ping
myhost." works. The solution is to make sure that all your hosts
have a domain set ("domain" in resolv.conf, or set a domain in
your DHCP server, see below for Windows XP and Mac OS X).
Any
domain will do, but "localnet" is traditional. Now when you
resolve "myhost" the resolver will attempt to look up
"myhost.localnet" so you need to have dnsmasq reply to that name.
The way to do that is to include the domain in each name on
/etc/hosts and/or to use the --expand-hosts and --domain options.

Q: How do I set the DNS domain in Windows XP or MacOS X (ref: previous
question)?

A: for XP, Control Panel > Network Connections > { Connection to gateway /
DNS } > Properties > { Highlight TCP/IP } > Properties > Advanced >
DNS Tab > DNS suffix for this connection:

A: for OS X, System Preferences > Network > {Connection to gateway / DNS } >
Search domains:

Q: Can I get dnsmasq to save the contents of its cache to disk when
I shut my machine down and re-load when it starts again?

A: No, that facility is not provided. Very few names in the DNS have
their time-to-live set for longer than a few hours so most of the
cache entries
would have expired after a shutdown. For longer-lived
names it's much cheaper to just reload them from the upstream
server. Note that dnsmasq is not shut down between PPP sessions so
go off-line and then on-line again will not lose the contents of
the cache.

Q: Who are Verisign, what do they have to do with the bogus-nxdomain
option in dnsmasq and why should I wory about it?

A: [note: this was written in September 2003, things may well change.]
Verisign run the .com and .net top-level-domains. They have just

changed the configuration of their servers so that unknown .com and .net domains, instead of returning an error code NXDOMAIN, (no such domain) return the address of a host at Verisign which runs a web server showing a search page. Most right-thinking people regard this new behaviour as broken :-). You can test to see if you are suffering Verisign brokenness by run a command like

host jlsdajkdalld.com

If you get "jlsdajkdalld.com" does not exist, then all is fine, if host returns an IP address, then the DNS is broken. (Try a few different unlikely domains, just in case you picked a weird one which really _is_ registered.)

Assuming that your DNS is broken, and you want to fix it, simply note the IP address being returned and pass it to dnsmasq using the --bogus-nxdomain flag. Dnsmasq will check for results returning that address and substitute an NXDOMAIN instead.

As of writing, the IP address in question for the .com and .net domains is is 64.94.110.11. Various other, less prominent, registries pull the same stunt; there is a list of them all, and the addresses to block, at http://winware.org/bogus-domains.txt

Q: This new DHCP server is well and good, but it doesn't work for me. What's the problem?

A: There are a couple of configuration gotchas which have been encountered by people moving from the ISC dhcpd to the dnsmasq integrated DHCP daemon. Both are related to differences in in the way the two daemons bypass the IP stack to do "ground up" IP configuration and can lead to the dnsmasq daemon failing whilst the ISC one works.

The first thing to check is the broadcast address set for the ethernet interface. This is normally the address on the connected network with all ones in the host part. For instance if the address of the ethernet interface is 192.168.55.7 and the netmask is 255.255.255.0 then the broadcast address should be 192.168.55.255. Having a broadcast address which is not on the network to which the interface is connected kills things stone dead.

The second potential problem relates to firewall rules: since the ISC daemon in some configurations bypasses the kernel firewall rules entirely, the ability to run the ISC daemon does not indicate

that the current configuration is OK for the dnsmasq daemon.
For the dnsmasq daemon
to operate it's vital that UDP packets to
and from ports 67 and 68 and broadcast packets with source
address 0.0.0.0 and destination address 255.255.255.255 are not
dropped by iptables/ipchains.

Q: I'm running Debian, and my machines get an address fine with DHCP,
but their names are not appearing in the DNS.

A: By default, none of the DHCP clients send the host-name when asking
for a lease. For most of the clients, you can set the host-name to
send with the "hostname" keyword in /etc/network/interfaces. (See
"man interfaces" for details.) That doesn't work for dhclient, were
you have to add something like "send host-name daisy" to
/etc/dhclient.conf [Update: the latest dhcpcd packages _do_ send
the hostname by default.

Q: I'm network booting my machines, and trying to give them static
DHCP-assigned addresses. The machine gets its correct address
whilst booting, but then the OS starts and it seems to get
allocated a different
address.

A: What is happening is this: The boot process sends a DHCP
request and gets allocated the static address corresponding to its
MAC address. The boot loader does not send a client-id. Then the OS
starts and repeats the DHCP process, but it it does send a
client-id. Dnsmasq cannot assume that the two requests are from the
same machine (since the client ID's don't match) and even though
the MAC address has a static allocation, that address is still in
use by the first incarnation of the machine (the one from the boot,
without a client ID.) dnsmasq therefore has to give the machine a
dynamic address from its pool. There are three ways to solve this:
(1) persuade your DHCP client not to send a client ID, or (2) set up
the static assignment to the client ID, not the MAC address. The
default client-id will be 01:<MAC address>, so change the dhcp-host
line from "dhcp-host=11:22:33:44:55:66,1.2.3.4" to
"dhcp-host=id:01:11:22:33:44:55:66,1.2.3.4"
or (3) tell dnsmasq to
ignore client IDs for a particular MAC address, like this:
dhcp-host=11:22:33:44:55:66,id:*

Q: What network types are supported by the DHCP server?

A: Ethernet (and 802.11 wireless) are supported on all platforms. On
Linux all network types (including FireWire) are supported.

Q: What are these strange "bind-interface" and "bind-dynamic" options?

A: Dnsmasq from v2.63 can operate in one of three different "networking modes". This is unfortunate as it requires users configuring dnsmasq to take into account some rather bizarre constraints and select the mode which best fits the requirements of a particular installation. The origin of these are deficiencies in the Unix networking model and APIs and each mode has different advantages and problems. Just to add to the confusion, not all modes are available on all platforms (due the to lack of supporting network APIs).To further add to
the confusion, the rules for the DHCP subsystem on dnsmasq are different to the rules for the DNS and TFTP subsystems.

The three modes are "wildcard", "bind-interfaces" and "bind-dynamic".

In "wildcard" mode, dnsmasq binds the wildcard IP address (0.0.0.0 or ::). This allows it to receive all the packets sent to the server on the relevant port. Access control (--interface, --except-interface, --listen-address, etc) is implemented by dnsmasq: it queries the kernel to determine the interface on which a packet was received and the address to which it was sent, and applies the configured rules. Wildcard mode is the default if neither of the other modes are specified.

In "bind-interfaces" mode, dnsmasq runs through all the network interfaces available when it starts, finds the set of IP addresses on those interfaces, filters that set using the access control configuration, and then binds the set of IP addresses. Only packets

sent to the allowed addresses are delivered by the kernel to dnsmasq.

In "bind-dynamic" mode, access control filtering is done both by binding individual IP addresses, as for bind-interfaces, and by inspecting individual packets on arrival as for wildcard mode. In addition, dnsmasq notices when new interfaces appear or new addresses appear on existing interfaces, and the resulting IP addresses are bound automatically without having to restart dnsmasq.

The mode chosen has four different effects: co-existence with other servers, semantics of --interface access control, effect of new interfaces, and legality of --interface specifications for non-existent interfaces. We will deal with these in order.

A dnsmasq instance running in wildcard mode precludes a machine from running a second instance of dnsmasq or any other DNS, TFTP or DHCP server. Attempts to do so will fail with an "address in use" error. Dnsmasq running in --bind-interfaces

or bind-dynamic mode allow other
instances of dnsmasq or other servers, as long as no two servers are
configured to listen on the same interface address.

The semantics of --interface varies subtly between wildcard or
bind-dynamic mode and bind-interfaces mode. The situation where this
matters is a request which arrives via one interface (A), but with a
destination address of a second interface (B) and when dnsmasq is
configured to listen only on B. In wildcard or bind-dynamic mode, such
a request will be ignored, in bind-interfaces mode, it will be
accepted.

The creation of new network interfaces after dnsmasq starts is ignored
by dnsmasq when in --bind-interfaces mode. In wildcard or bind-dynamic
mode, such interfaces are handled normally.

An --interface specification for a non-existent interface is a fatal
error at start-up when in --bind-interfaces mode, by just generates a
warning in wildcard or bind-dynamic
mode.

Q: Why doesn't Kerberos work/why can't I get sensible answers to
queries for SRV records.

A: Probably because you have the "filterwin2k" option set. Note that
it was on by default in example configuration files included in
versions before 2.12, so you might have it set on without
realising.

Q: Can I get email notification when a new version of dnsmasq is
released?

A: Yes, new releases of dnsmasq are always announced through
freshmeat.net, and they allow you to subscribe to email alerts when
new versions of particular projects are released. New releases are
also announced in the dnsmasq-discuss mailing list, subscribe at
http://lists.thekelleys.org.uk/mailman/listinfo/dnsmasq-discuss

Q: What does the dhcp-authoritative option do?

A: The DHCP spec says that when a DHCP server receives a renewal request
from a client it has no knowledge of, it should just ignore it.
This is because it's supported to have more than
one DHCP server
on a network, and another DHCP server may be dealing with the client.
This has the unfortunate effect that when _no_ DHCP replies to
the client, it takes some time for the client to time-out and start
to get a new lease. Setting this option makes dnsmasq violate the

standard to the extent that it will send a NAK reply to the client, causing it to immediately start to get a new lease. This improves behaviour when machines move networks, and in the case that the DHCP lease database is lost. As long as there are not more tha one DHCP server on the network, it's safe to enable the option.

Q: Why does my Gentoo box pause for a minute before getting a new lease?

A: Because when a Gentoo box shuts down, it releases its lease with the server but remembers it on the client; this seems to be a Gentoo-specific patch to dhcpcd. On restart it tries to renew a lease which is long gone, as far as dnsmasq is concerned, and dnsmasq ignores it until is times out and restarts the process. To fix this, set the dhcp-authoritative flag in dnsmasq.

Q: My laptop has two network interfaces, a wired one and a wireless one. I never use both interfaces at the same time, and I'd like the same IP and configuration to be used irrespective of which interface is in use. How can I do that?

A: By default, the identity of a machine is determined by using the MAC address, which is associated with interface hardware. Once an IP is bound to the MAC address of one interface, it cannot be associated with another MAC address until after the DHCP lease expires. The solution to this is to use a client-id as the machine identity rather than the MAC address. If you arrange for the same client-id to sent when either interface is in use, the DHCP server will recognise the same machine, and use the same address. The method for setting the client-id varies with DHCP client software, dhcpcd uses the "-I" flag. Windows uses a registry setting, see http://www.jsiinc.com/SUBF/TIP2800/rh2845.htm

Addendum:
From version 2.46, dnsmasq has a solution to this which doesn't involve setting client-IDs. It's possible to put more than one MAC address in a --dhcp-host configuration. This tells dnsmasq that it should use the specified IP for any of the specified MAC addresses, and furthermore it gives dnsmasq permission to summarily abandon a lease to one of the MAC addresses if another one comes along. Note that this will work fine only as longer as only one interface is up at any time. There is no way for dnsmasq to enforce this constraint: if you configure multiple MAC addresses and violate this rule, bad things will happen.

Addendum-II: The link above is dead, the former contents of the link are:

How can I keep the same DHCP client reservation,
if the MAC address changes?

When you reserve an IP address for a DHCP client, you provide the
MAC address of the client's NIC.

It is possible to use a custom identifier, which is sent as
option 61 in the client's DHCP Discover and Request packet.

The DhcpClientIdentifier is a REG_DWORD value that is located at:

Windows NT 4.0 SP2+

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\<Adapter Name>'X'\Parameters\Tcpip

where <Adapter Name> is the NIC driver name and 'X' is the number of the NIC.

Windows 2000

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\TcpIp\Parameters\Interfaces\<NIC GUID>

where <NIC GUID> is the GUID of the NIC.

The valid range of data is 0x0 - 0xFFFFFFFF. The custom identifier is send as 4 bytes,
8 hexadecimal character, in groups of 2 hexadecimal characters, with the groups being
sent in reverse order. If the custom identifier is less than 8 hexadeciaml characters,
it is zero padded at the end. Examples:

Custom Client Identifier	Client Reservation on DHCP Server
12345678	78563412
123456	56341200
1234	34120000
1234567	67452301
12345	45230100
123	23010000
A18F42	428FA100
CF432	32F40C00
C32D1BE	BED1320C

Q: Can dnsmasq do DHCP on IP-alias interfaces?

A: Yes, from version-2.21. The support is only available running under
Linux, on a kernel which provides the RT-netlink facility. All 2.4

and 2.6 kernels provide RT-netlink and it's an option in 2.2 kernels.

If a physical interface has more than one IP address or aliases with extra IP addresses, then any dhcp-ranges corresponding to these addresses can be used for address allocation. So if an interface has addresses 192.168.1.0/24 and 192.168.2.0/24 and there are DHCP ranges 192.168.1.100-192.168.1.200 and 192.168.2.100-192.168.2.200 then both ranges would be used for host connected to the physical interface. A more typical use might be to have one of the address-ranges as static-only, and have known hosts allocated addresses on that subnet using dhcp-host options, while anonymous hosts go on the other.

Q: Dnsmasq sometimes logs "nameserver xxx.xxx.xxx.xxx refused to do a recursive query" and DNS stops working. What's going on?

A: Probably the nameserver is an authoritative nameserver for a particular domain, but is not configured to answer general DNS queries for an arbitrary domain. It is not suitable for use by dnsmasq as an upstream server and should be removed from the configuration. Note that if you have more than one upstream nameserver configured dnsmasq will load-balance across them and it may be some time before dnsmasq gets around to using a particular nameserver. This means that a particular configuration may work for sometime with a broken upstream nameserver configuration.

Q: Does the dnsmasq DHCP server probe addresses before allocating them, as recommended in RFC2131?

A: Yes, dynamically allocated IP addresses are checked by sending an ICMP echo request (ping). If a reply is received, then dnsmasq assumes that the address is in use, and attempts to allocate an different address. The wait for a reply is between two and three seconds. Because the DHCP server is not re-entrant, it cannot serve other DHCP requests during this time. To avoid dropping requests, the address probe may be skipped when dnsmasq is under heavy load.

Q: I'm using dnsmasq on a machine with the Firestarter firewall, and DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit

details on how to
proceed can be found at
http://lists.thekelleys.org.uk/pipermail/dnsmasq-discuss/2005q3/000431.html

Q: I'm using dnsmasq on a machine with the shorewall firewall, and
DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to
proceed can be found at
http://lists.thekelleys.org.uk/pipermail/dnsmasq-discuss/2007q4/001764.html

Q: Dnsmasq fails to start up with a message about capabilities.
Why did that happen and what can do to fix it?

A: Change your kernel configuration: either deselect CONFIG_SECURITY
_or_ select CONFIG_SECURITY_CAPABILITIES. Alternatively, you can
remove the need to set capabilities by running dnsmasq as root.

Q: Where can I get .rpms Suitable for openSUSE/SLES?

A: Dnsmasq is in openSUSE itself, and the latest releases are also
available at http://download.opensuse.org/repositories/network/

Q: Can I run dnsmasq in a Linux vserver?

A:
Yes, as a DNS server, dnsmasq will just work in a vserver.
To use dnsmasq's DHCP function you need to give the vserver
extra system capabilities. Please note that doing so will lesser
the overall security of your system. The capabilities
required are NET_ADMIN and NET_RAW. NET_ADMIN is essential, NET_RAW
is required to do an ICMP "ping" check on newly allocated
addresses. If you don't need this check, you can disable it with
--no-ping and omit the NET_RAW capability.
Adding the capabilities is done by adding them, one per line, to
either /etc/vservers/<vservername>/ccapabilities for a 2.4 kernel or
/etc/vservers/<vservername>/bcapabilities for a 2.6 kernel (please
refer to the vserver documentation for more information).

Q: What's the problem with syslog and dnsmasq?

A: In almost all cases: none. If you have the normal arrangement with
local daemons logging to a local syslog, which then writes to disk,

then there's never
a problem. If you use network logging, then
there's a potential problem with deadlock: the syslog daemon will
do DNS lookups so that it can log the source of log messages,
these lookups will (depending on exact configuration) go through
dnsmasq, which also sends log messages. With bad timing, you can
arrive at a situation where syslog is waiting for dnsmasq, and
dnsmasq is waiting for syslog; they will both wait forever. This
problem is fixed from dnsmasq-2.39, which introduces asynchronous
logging: dnsmasq no longer waits for syslog and the deadlock is
broken. There is a remaining problem in 2.39, where "log-queries"
is in use. In this case most DNS queries generate two log lines, if
these go to a syslog which is doing a DNS lookup for each log line,
then those queries will in turn generate two more log lines, and a
chain reaction runaway will occur. To avoid this, use syslog-ng
and turn on syslog-ng's dns-cache function.

Q:
DHCP doesn't work with windows Vista, but everything else is fine.

A: The DHCP client on windows Vista (and possibly later versions)
demands that the DHCP server send replies as broadcasts. Most other
clients don't do this. The broadcasts are send to
255.255.255.255. A badly configured firewall which blocks such
packets will show exactly these symptoms (Vista fails, others
work).

Q: DHCP doesn't work with windows 7 but everything else is fine.

A: There seems to be a problem if Windows 7 doesn't get a value for
DHCP option 252 in DHCP packets it gets from the server. The
symptoms have been variously reported as continual DHCPINFORM
requests in an attempt to get an option-252, or even ignoring DHCP
offers completely (and failing to get an IP address) if there is no
option-252 supplied. DHCP option 252 is for WPAD, WWW Proxy
Auto Detection and if you don't want or need to use that, then
simplest fix seems to be to supply
an empty option with:

dhcp-option=252,"\n"

```
/* dnsmasq is Copyright (c) 2000-2018 Simon Kelley

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  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; version 2 dated June, 1991, or
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  along with this program.  If not, see <http://www.gnu.org/licenses/>.
*/

#include "dnsmasq.h"

/* Time between forced re-loads from kernel. */
#define INTERVAL 90

#define ARP_MARK  0
#define ARP_FOUND 1  /* Confirmed */
#define ARP_NEW   2  /* Newly created */
#define ARP_EMPTY 3  /* No MAC addr */

struct arp_record {
 unsigned short
 hwlen, status;
 int family;
 unsigned char hwaddr[DHCP_CHADDR_MAX];
 struct all_addr addr;
 struct arp_record *next;
};

static struct arp_record *arps = NULL, *old = NULL, *freelist = NULL;
static time_t last = 0;

static int filter_mac(int family, char *addrp, char *mac, size_t maclen, void *parmv)
{
 struct arp_record *arp;

 (void)parmv;
```

```
 if (maclen > DHCP_CHADDR_MAX)
   return 1;

#ifndef HAVE_IPV6
 if (family != AF_INET)
   return 1;
#endif

 /* Look for existing entry */
 for (arp = arps; arp; arp = arp->next)
   {
     if (family != arp->family || arp->status == ARP_NEW)
 continue;

     if (family == AF_INET)
 {
   if (arp->addr.addr.addr4.s_addr != ((struct in_addr *)addrp)->s_addr)
     continue;
 }
#ifdef HAVE_IPV6
     else
 {
   if (!IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, (struct in6_addr *)addrp))
     continue;
 }
#endif

     if (arp->status == ARP_EMPTY)
 {
   /* existing address, was negative.
 */
   arp->status = ARP_NEW;
   arp->hwlen = maclen;
   memcpy(arp->hwaddr, mac, maclen);
 }
     else if (arp->hwlen == maclen && memcmp(arp->hwaddr, mac, maclen) == 0)
 /* Existing entry matches - confirm. */
 arp->status = ARP_FOUND;
     else
 continue;

     break;
   }

 if (!arp)
   {
     /* New entry */
```

```
    if (freelist)
 {
  arp = freelist;
  freelist = freelist->next;
 }
    else if (!(arp = whine_malloc(sizeof(struct arp_record))))
 return 1;

    arp->next = arps;
    arps = arp;
    arp->status = ARP_NEW;
    arp->hwlen = maclen;
    arp->family = family;
    memcpy(arp->hwaddr, mac, maclen);
    if (family == AF_INET)
 arp->addr.addr.addr4.s_addr = ((struct in_addr *)addrp)->s_addr;
#ifdef HAVE_IPV6
    else
 memcpy(&arp->addr.addr.addr6, addrp, IN6ADDRSZ);
#endif
   }

 return 1;
}

/* If in lazy mode, we cache absence of ARP entries. */
int find_mac(union mysockaddr *addr, unsigned
 char *mac, int lazy, time_t now)
{
 struct arp_record *arp, *tmp, **up;
 int updated = 0;

again:

 /* If the database is less then INTERVAL old, look in there */
 if (difftime(now, last) < INTERVAL)
   {
    /* addr == NULL -> just make cache up-to-date */
    if (!addr)
 return 0;

    for (arp = arps; arp; arp = arp->next)
 {
  if (addr->sa.sa_family != arp->family)
    continue;

  if (arp->family == AF_INET &&
      arp->addr.addr.addr4.s_addr != addr->in.sin_addr.s_addr)
```

```
    continue;

#ifdef HAVE_IPV6
  if (arp->family == AF_INET6 &&
      !IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, &addr->in6.sin6_addr))
    continue;
#endif

  /* Only accept positive entries unless in lazy mode. */
  if (arp->status != ARP_EMPTY || lazy || updated)
    {
      if (mac && arp->hwlen != 0)
 memcpy(mac, arp->hwaddr, arp->hwlen);
      return arp->hwlen;
    }
 }
  }

 /* Not found, try the kernel */
 if (!updated)
    {
     updated = 1;
     last = now;

     /* Mark all non-negative entries */
     for (arp = arps; arp; arp = arp->next)
 if (arp->status != ARP_EMPTY)
   arp->status = ARP_MARK;

     iface_enumerate(AF_UNSPEC, NULL, filter_mac);

     /* Remove all unconfirmed entries to old list. */
     for (arp = arps, up = &arps; arp; arp = tmp)
 {
   tmp = arp->next;

   if (arp->status == ARP_MARK)
     {
       *up = arp->next;
       arp->next = old;
       old = arp;
     }
   else
     up = &arp->next;
 }

     goto again;
   }
```

```
 /* record failure, so we don't consult the kernel each time
    we're asked for this address */
 if (freelist)
   {
     arp = freelist;
     freelist = freelist->next;
   }
 else
   arp = whine_malloc(sizeof(struct arp_record));

 if (arp)
   {
     arp->next = arps;
     arps = arp;
     arp->status = ARP_EMPTY;
     arp->family = addr->sa.sa_family;
      arp->hwlen = 0;

     if (addr->sa.sa_family == AF_INET)
 arp->addr.addr.addr4.s_addr = addr->in.sin_addr.s_addr;
#ifdef HAVE_IPV6
     else
 memcpy(&arp->addr.addr.addr6, &addr->in6.sin6_addr, IN6ADDRSZ);
#endif
   }

  return 0;
}

int do_arp_script_run(void)
{
 struct arp_record *arp;

 /* Notify any which went, then move to free list */
 if (old)
   {
#ifdef HAVE_SCRIPT
     if (option_bool(OPT_SCRIPT_ARP))
 queue_arp(ACTION_ARP_DEL, old->hwaddr, old->hwlen, old->family, &old->addr);
#endif
     arp = old;
     old = arp->next;
     arp->next = freelist;
     freelist = arp;
     return 1;
   }
```

```
 for (arp = arps; arp; arp = arp->next)
   if (arp->status == ARP_NEW)
     {
#ifdef HAVE_SCRIPT
 if (option_bool(OPT_SCRIPT_ARP))
   queue_arp(ACTION_ARP, arp->hwaddr, arp->hwlen, arp->family, &arp->addr);
#endif
 arp->status = ARP_FOUND;
 return 1;
     }

 return 0;
}
```

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# NOTE: Building the i18n targets requires GNU-make


# Variables you may well want to override.

PREFIX       = /usr/local
BINDIR       = $(PREFIX)/sbin
MANDIR       = $(PREFIX)/share/man
LOCALEDIR    = $(PREFIX)/share/locale
BUILDDIR     = $(SRC)
DESTDIR
 =
CFLAGS       = -Wall -W -O2
LDFLAGS      =
COPTS        =
RPM_OPT_FLAGS =
LIBS         =

######################################################################

# Variables you might want to override.

PKG_CONFIG = pkg-config
INSTALL    = install
MSGMERGE   = msgmerge
MSGFMT     = msgfmt
XGETTEXT   = xgettext

SRC = src
PO  = po
MAN = man

######################################################################

# pmake way. (NB no spaces to keep gmake 3.82 happy)
top!=pwd
# GNU make way.
top?=$(CURDIR)

dbus_cflags =   `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --cflags dbus-1`
dbus_libs =     `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --libs dbus-1`
idn_cflags =    `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --cflags libidn`
```

```
idn_libs =      `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --libs libidn`
idn2_cflags =   `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG)
 --cflags libidn2`
idn2_libs =     `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --libs libidn2`
ct_cflags =     `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --cflags
libnetfilter_conntrack`
ct_libs =       `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --libs
libnetfilter_conntrack`
lua_cflags =    `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --cflags lua5.2`
lua_libs =      `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --libs lua5.2`
nettle_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --cflags nettle
hogweed`
nettle_libs =   `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --libs nettle hogweed`
gmp_libs =      `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC NO_GMP --copy -lgmp`
sunos_libs =    `if uname | grep SunOS >/dev/null 2>&1; then echo -lsocket -lnsl -lposix4; fi`
version =     -DVERSION='\"`$(top)/bld/get-version
 $(top)`\"'

sum?=$(shell $(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum
2>/dev/null || md5 ) | cut -f 1 -d ' ')
sum!=$(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum 2>/dev/null ||
md5 ) | cut -f 1 -d ' '
copts_conf = .copts_$(sum)

objs = cache.o rfc1035.o util.o option.o forward.o network.o \
     dnsmasq.o dhcp.o lease.o rfc2131.o netlink.o dbus.o bpf.o \
     helper.o tftp.o log.o conntrack.o dhcp6.o rfc3315.o \
     dhcp-common.o outpacket.o radv.o slaac.o auth.o ipset.o \
     domain.o dnssec.o blockdata.o tables.o loop.o inotify.o \
     poll.o rrfilter.o edns0.o arp.o crypto.o

hdrs = dnsmasq.h config.h dhcp-protocol.h dhcp6-protocol.h \
     dns-protocol.h radv-protocol.h ip6addr.h

all : $(BUILDDIR)
 @cd $(BUILDDIR) && $(MAKE) \
top="$(top)" \
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" \
build_libs="$(dbus_libs)
 $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)" \
-f $(top)/Makefile dnsmasq

mostly_clean :
 rm -f $(BUILDDIR)/*.mo $(BUILDDIR)/*.pot
 rm -f $(BUILDDIR)/.copts_* $(BUILDDIR)/*.o $(BUILDDIR)/dnsmasq.a $(BUILDDIR)/dnsmasq

clean : mostly_clean
 rm -f $(BUILDDIR)/dnsmasq_baseline
```

```
 rm -f core */core
 rm -f *~ contrib/*/*~ */*~

install : all install-common

install-common :
 $(INSTALL) -d $(DESTDIR)$(BINDIR) -d $(DESTDIR)$(MANDIR)/man8
 $(INSTALL) -m 644 $(MAN)/dnsmasq.8 $(DESTDIR)$(MANDIR)/man8
 $(INSTALL) -m 755 $(BUILDDIR)/dnsmasq $(DESTDIR)$(BINDIR)

all-i18n : $(BUILDDIR)
 @cd $(BUILDDIR) && $(MAKE) \
top="$(top)" \
i18n=-DLOCALEDIR=\'\"$(LOCALEDIR)\"\' \
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" \
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)"  \
-f $(top)/Makefile
 dnsmasq
 for f in `cd $(PO); echo *.po`; do \
  cd $(top) && cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile $${f%.po}.mo; \
 done

install-i18n : all-i18n install-common
 cd $(BUILDDIR); $(top)/bld/install-mo $(DESTDIR)$(LOCALEDIR) $(INSTALL)
 cd $(MAN); ../bld/install-man $(DESTDIR)$(MANDIR) $(INSTALL)

merge :
 @cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile dnsmasq.pot
 for f in `cd $(PO); echo *.po`; do \
  echo -n msgmerge $(PO)/$$f && $(MSGMERGE) --no-wrap -U $(PO)/$$f $(BUILDDIR)/dnsmasq.pot; \
 done

# Canonicalise .po file.
%.po :
 @cd $(BUILDDIR) && $(MAKE) -f $(top)/Makefile dnsmasq.pot
 mv $(PO)/$*.po $(PO)/$*.po.orig && $(MSGMERGE) --no-wrap $(PO)/$*.po.orig $(BUILDDIR)/dnsmasq.pot
>$(PO)/$*.po;

$(BUILDDIR):
 mkdir -p $(BUILDDIR)

# rules below are helpers for size tracking

baseline : mostly_clean all
 @cd $(BUILDDIR) && \
    mv dnsmasq dnsmasq_baseline

bloatcheck : $(BUILDDIR)/dnsmasq_baseline mostly_clean
```

```
 all
 @cd $(BUILDDIR) && \
        $(top)/bld/bloat-o-meter dnsmasq_baseline dnsmasq; \
        size dnsmasq_baseline dnsmasq

# rules below are targets in recursive makes with cwd=$(BUILDDIR)

$(copts_conf): $(hdrs)
 @rm -f *.o .copts_*
 @touch $@

$(objs:.o=.c) $(hdrs):
 ln -s $(top)/$(SRC)/$@ .

$(objs): $(copts_conf) $(hdrs)

.c.o:
 $(CC) $(CFLAGS) $(COPTS) $(i18n) $(build_cflags) $(RPM_OPT_FLAGS) -c $<

dnsmasq : $(objs)
 $(CC) $(LDFLAGS) -o $@ $(objs) $(build_libs) $(LIBS)

dnsmasq.pot : $(objs:.o=.c) $(hdrs)
 $(XGETTEXT) -d dnsmasq --foreign-user --omit-header --keyword=_ -o $@ -i $(objs:.o=.c)

%.mo : $(top)/$(PO)/%.po dnsmasq.pot
 $(MSGMERGE) -o - $(top)/$(PO)/$*.po dnsmasq.pot | $(MSGFMT) -o $*.mo -

.PHONY : all clean mostly_clean install install-common all-i18n install-i18n merge baseline bloatcheck
```

1.121 ntp 4.2.8p12

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  3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial
     line and PCI-bus devices
  4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood
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<kirkwood@striderfm.intel.com> port to WindowsNT 3.5

5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto

features in sntp

11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
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NeoClock4X clock driver

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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port

32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
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42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org>

Bancomm refclock and config/parse code maintenance

44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
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46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
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)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
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 validated HTML documents according to the HTML DTD

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```
/* -*- Mode: Text -*- */

copyright = {
  date  = "1992-2017";
  owner = "The University of Delaware and Network Time Foundation";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type  = ntp;
};

long-opts;
config-header  = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version        = `
eval VERSION=\`sed -e 's/.*,\\[//' -e 's/\\].*//' < ../sntp/m4/version.m4\`
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = ''; /* Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
//     sub-name = version;
//     sub-text = 's/#VERSION#/<<version>>/g';
// };
```

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href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com> GPSVME fixes
Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
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Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>
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Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
Ray Schnitzler <schnitz@unipress.com> Unixware1 port
Michael Shields <shields@tembel.org> USNO clock driver
Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
Kenneth Stone <ken@sdd.hp.com> HP-UX port
Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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</html>

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1.125 zlib 1.2.11

1.125.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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

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

1.126 oct-zip-drv 3.1.0-p5

1.126.1 Available under license :

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1.127 kmod 25

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This file contains a list of people who've made non-trivial
contribution to the Google C++ Mocking Framework project. People
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  * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
   * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
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  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
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  * Fix bug with permanent callbacks that delete themselves when run.
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  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)
This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
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1.130 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.131 cronie 1.5.1-r0

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1.132 free-type 2.9.1

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1.133 python-requests 2.18.4-r0

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1.134 c-ares 1.15.0

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1.135 eudev 3.2.5

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1.136 perl 5.24.4

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---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org
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 repository: http://github.com/dagolden/module-build/
version: 3

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

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

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ($Config{usecrosscompile}) {
 skip_all("Not all files are available during cross-compilation");
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

Check that both copyright dates are up-to-date, but only if requested, so

```
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes
 current year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

1.137 slang 2.3.2

1.137.1 Available under license :

\chapter{Copyright}
The \slang library is distributed under the terms of the GNU General
Public License.

\sect{The GNU Public License}
#v+
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1.141 iperf 3.5

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 * by Mark Gates <mgates@nlanr.net>
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 * ---------------------------------------------------------------------
 * input and output numbers, converting with kilo, mega, giga
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1.147 opkg-utils 0.3.6

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

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If distribution of object code is made by offering access to copy
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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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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the work with the complete corresponding
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(For example, a function in a library to compute square roots has

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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
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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==========

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##
Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009
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##
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1.160 openssh 7.6p1

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  [Tatu continues]
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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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b) snprintf replacement

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
```

```
#ifndef HAVE_WAITPID
/* Clean out any potental issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)  ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
 int  fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN  0x0001
#define POLLOUT  0x0004
#define POLLERR  0x0008
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI  0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not
 standard */

int   poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/*
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

1.161 shadow 4.6

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1.163 isc-dhcp 4.4.1

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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 form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found
 in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
 except the first one, were first implemented in the Buildtool project.
 They were later adapted to be part of Boost.Process and, during that
 process, the shell script was created.

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==
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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That's all there is to it!

```
/* Getopt for GNU.
  NOTE: gnu_getopt is now part of the C library, so if you don't know what
  "Keep this file name-space clean" means, talk to roland@gnu.ai.mit.edu
  before changing it!

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  write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330,
  Boston, MA 02111-1307, USA.  */

/*
* modified July 9, 1999 by mark gates <mgates@nlanr.net>
*          Dec 17, 1999
*
* renamed all functions and variables by prepending "gnu_"
* removed/redid a bunch of stuff under the assumption we're
*   using a modern standard C compiler.
* add #include <string.h> here for strncmp(). Originally
*   it was included only under special conditions.
*
* $Id: gnu_getopt.c,v 1.1.1.1 2004/05/18 01:50:44 kgibbs Exp $
*/



#include <stdio.h>
#include <stdlib.h>
```

```
#ifndef _MSC_VER /* Visual C++ doesn't have unistd.h */
  #include <unistd.h>
#endif
#include <string.h>

#ifndef _
/* This is for other GNU distributions with internationalized messages.
  When compiling libc, the _ macro is predefined.  */
  #ifdef
 HAVE_LIBINTL_H
     #include <libintl.h>
     #define _(msgid) gettext (msgid)
  #else
     #define _(msgid) (msgid)
  #endif
#endif

/* This version of `gnu_getopt' appears to the caller like standard
  Unix `getopt' but it behaves differently for the user, since it
  allows the user to intersperse the options with the other
  arguments.

  As `gnu_getopt' works, it permutes the elements of ARGV so that,
  when it is done, all the options precede everything else.  Thus
  all application programs are extended to handle flexible argument order.

  Setting the environment variable POSIXLY_CORRECT disables permutation.
  Then the behavior is completely standard.

  GNU application programs can use a third alternative mode in which
  they can distinguish the relative order of options and other arguments.  */

#include "gnu_getopt.h"

#ifdef __cplusplus
extern "C" {
#endif

/* For communication from `gnu_getopt' to the caller.
  When `gnu_getopt'
 finds an option that takes an argument,
  the argument value is returned here.
  Also, when `ordering' is RETURN_IN_ORDER,
  each non-option ARGV-element is returned here.  */

char *gnu_optarg = NULL;

/* Index in ARGV of the next element to be scanned.
```

```
  This is used for communication to and from the caller
  and for communication between successive calls to `gnu_getopt'.

  On entry to `gnu_getopt', zero means this is the first call; initialize.

  When `gnu_getopt' returns -1, this is the index of the first of the
  non-option elements that the caller should itself scan.

  Otherwise, `gnu_optind' communicates from one call to the next
  how much of ARGV has been scanned so far.  */

/* 1003.2 says this must be 1 before any call.  */
int gnu_optind = 1;

/* Formerly, initialization of gnu_getopt depended on gnu_optind==0, which
  causes problems with re-calling gnu_getopt as programs generally don't
  know that. */

int __gnu_getopt_initialized
 = 0;

/* The next char to be scanned in the option-element
  in which the last option character we returned was found.
  This allows us to pick up the scan where we left off.

  If this is zero, or a null string, it means resume the scan
  by advancing to the next ARGV-element.  */

static char *nextchar;

/* Callers store zero here to inhibit the error message
  for unrecognized options.  */

int gnu_opterr = 1;

/* Set to an option character which was unrecognized.
  This must be initialized on some systems to avoid linking in the
  system's own gnu_getopt implementation.  */

int gnu_optopt = '?';

/* Describe how to deal with options that follow non-option ARGV-elements.

  If the caller did not specify anything,
  the default is REQUIRE_ORDER if the environment variable
  POSIXLY_CORRECT is defined, PERMUTE otherwise.

  REQUIRE_ORDER means don't recognize them as options;
```

```
  stop option processing when the first non-option is seen.
   This is what Unix does.
  This mode of operation is selected by either setting the environment
  variable POSIXLY_CORRECT, or using `+' as the first character
  of the list of option characters.

  PERMUTE is the default.  We permute the contents of ARGV as we scan,
  so that eventually all the non-options are at the end.  This allows options
  to be given in any order, even with programs that were not written to
  expect this.

  RETURN_IN_ORDER is an option available to programs that were written
  to expect options and other ARGV-elements in any order and that care about
  the ordering of the two.  We describe each non-option ARGV-element
  as if it were the argument of an option with character code 1.
  Using `-' as the first character of the list of option characters
  selects this mode of operation.

  The special argument `--' forces an end of option-scanning regardless
  of the value of `ordering'.  In the case of RETURN_IN_ORDER, only
   `--' can cause `gnu_getopt' to return -1 with `gnu_optind' != ARGC.  */

static enum {
   REQUIRE_ORDER, PERMUTE, RETURN_IN_ORDER
} ordering;

/* Value of POSIXLY_CORRECT environment variable.  */
static char *posixly_correct;


/* Avoid depending on library functions or files
  whose names are inconsistent.  */

static char *
my_index( const char* str, int chr ) {
   while ( *str ) {
      if ( *str == chr )
         return(char *) str;
      str++;
   }
   return 0;
}


/* Handle permutation of arguments.  */

/* Describe the part of ARGV that contains non-options that have
  been skipped.  `first_nonopt' is the index in ARGV of the first of them;
```

```
  `last_nonopt' is the index after the last of them.  */

static int first_nonopt;
static int last_nonopt;

/* Exchange two adjacent subsequences of ARGV.
  One subsequence is elements [first_nonopt,last_nonopt)
  which contains all the non-options that have been skipped so far.
  The
 other is elements [last_nonopt,gnu_optind), which contains all
  the options processed since those non-options were skipped.

  `first_nonopt' and `last_nonopt' are relocated so that they describe
  the new indices of the non-options in ARGV after they are moved.  */

static void exchange( char **argv );

static void
exchange( char **argv ) {
  int bottom = first_nonopt;
  int middle = last_nonopt;
  int top = gnu_optind;
  char *tem;

  /* Exchange the shorter segment with the far end of the longer segment.
     That puts the shorter segment into the right place.
     It leaves the longer segment in the right place overall,
     but it consists of two parts that need to be swapped next.  */

  while ( top > middle && middle > bottom ) {
     if ( top - middle > middle - bottom ) {
        /* Bottom segment is the short one.  */
        int len = middle - bottom;
        register int i;

        /* Swap it with the top
 part of the top segment.  */
        for ( i = 0; i < len; i++ ) {
           tem = argv[bottom + i];
           argv[bottom + i] = argv[top - (middle - bottom) + i];
           argv[top - (middle - bottom) + i] = tem;
        }
        /* Exclude the moved bottom segment from further swapping.  */
        top -= len;
     } else {
        /* Top segment is the short one.  */
        int len = top - middle;
        register int i;
```

```
          /* Swap it with the bottom part of the bottom segment.  */
          for ( i = 0; i < len; i++ ) {
             tem = argv[bottom + i];
             argv[bottom + i] = argv[middle + i];
             argv[middle + i] = tem;
          }
          /* Exclude the moved top segment from further swapping.  */
          bottom += len;
        }
    }

    /* Update records for the slots the non-options now occupy.  */

    first_nonopt += (gnu_optind - last_nonopt);
     last_nonopt = gnu_optind;
}

/* Initialize the internal data when the first call is made.  */

static const char *
_gnu_getopt_initialize( int argc,
                        char *const * argv,
                        const char *optstring );

static const char *
_gnu_getopt_initialize( int argc,
                        char *const * argv,
                        const char *optstring ) {
    /* Start processing options with ARGV-element 1 (since ARGV-element 0
       is the program name); the sequence of previously skipped
       non-option ARGV-elements is empty.  */

    first_nonopt = last_nonopt = gnu_optind = 1;

    nextchar = NULL;

    posixly_correct = getenv ("POSIXLY_CORRECT");

    /* Determine how to handle the ordering of options and nonoptions.  */

    if ( optstring[0] == '-' ) {
        ordering = RETURN_IN_ORDER;
        ++optstring;
    } else if ( optstring[0] == '+' ) {
        ordering = REQUIRE_ORDER;
        ++optstring;
```

```
    } else if ( posixly_correct != NULL )
      ordering = REQUIRE_ORDER;
    else
      ordering = PERMUTE;

    return optstring;
}

/* Scan elements of ARGV (whose length is ARGC) for option characters
   given in OPTSTRING.

   If an element of ARGV starts with '-', and is not exactly "-" or "--",
   then it is an option element.  The characters of this element
   (aside from the initial '-') are option characters.  If `gnu_getopt'
   is called repeatedly, it returns successively each of the option characters
   from each of the option elements.

   If `gnu_getopt' finds another option character, it returns that character,
   updating `gnu_optind' and `nextchar' so that the next call to `gnu_getopt' can
   resume the scan with the following option character or ARGV-element.

   If there are no more option characters, `gnu_getopt' returns -1.
   Then `gnu_optind' is the index in ARGV of the first ARGV-element
   that is not an option.  (The ARGV-elements have
  been permuted
   so that those that are not options now come last.)

   OPTSTRING is a string containing the legitimate option characters.
   If an option character is seen that is not listed in OPTSTRING,
   return '?' after printing an error message.  If you set `gnu_opterr' to
   zero, the error message is suppressed but we still return '?'.

   If a char in OPTSTRING is followed by a colon, that means it wants an arg,
   so the following text in the same ARGV-element, or the text of the following
   ARGV-element, is returned in `gnu_optarg'.  Two colons mean an option that
   wants an optional arg; if there is text in the current ARGV-element,
   it is returned in `gnu_optarg', otherwise `gnu_optarg' is set to zero.

   If OPTSTRING starts with `-' or `+', it requests different methods of
   handling the non-option ARGV-elements.
   See the comments about RETURN_IN_ORDER and REQUIRE_ORDER, above.

   Long-named options begin with `--' instead of `-'.
   Their
  names may be abbreviated as long as the abbreviation is unique
   or is an exact match for some defined option.  If they have an
   argument, it follows the option name in the same ARGV-element, separated
   from the option name by a `=', or else the in next ARGV-element.
```

```
  When `gnu_getopt' finds a long-named option, it returns 0 if that option's
  `flag' field is nonzero, the value of the option's `val' field
  if the `flag' field is zero.

  The elements of ARGV aren't really const, because we permute them.
  But we pretend they're const in the prototype to be compatible
  with other systems.

  LONGOPTS is a vector of `struct option' terminated by an
  element containing a name which is zero.

  LONGIND returns the index in LONGOPT of the long-named option found.
  It is only valid when a long-named option has been found by the most
  recent call.

  If LONG_ONLY is nonzero, '-' as well as '--' can introduce
  long-named options.  */

int
_gnu_getopt_internal(
 int argc,
                  char *const *argv,
                  const char *optstring,
                  const struct option *longopts,
                  int *longind,
                  int long_only ) {
  gnu_optarg = NULL;

  if ( !__gnu_getopt_initialized || gnu_optind == 0 ) {
      optstring = _gnu_getopt_initialize (argc, argv, optstring);
      gnu_optind = 1;       /* Don't scan ARGV[0], the program name.  */
      __gnu_getopt_initialized = 1;
  }

  /* Test whether ARGV[gnu_optind] points to a non-option argument.
     Either it does not have option syntax, or there is an environment flag
     from the shell indicating it is not an option.  The later information
     is only used when the used in the GNU libc.  */

#define NONOPTION_P (argv[gnu_optind][0] != '-' || argv[gnu_optind][1] == '\0')

  if ( nextchar == NULL || *nextchar == '\0' ) {
      /* Advance to the next ARGV-element.  */



      /* Give FIRST_NONOPT & LAST_NONOPT rational values if OPTIND has been
     moved back by the user (who may also have changed the arguments).  */
      if ( last_nonopt > gnu_optind )
```

```
      last_nonopt = gnu_optind;
    if ( first_nonopt > gnu_optind )
      first_nonopt = gnu_optind;

    if ( ordering == PERMUTE ) {
      /* If we have just processed some options following some non-options,
        exchange them so that the options come first.  */

      if ( first_nonopt != last_nonopt && last_nonopt != gnu_optind )
        exchange ((char **) argv);
      else if ( last_nonopt != gnu_optind )
        first_nonopt = gnu_optind;

      /* Skip any additional non-options
        and extend the range of non-options previously skipped.  */

      while ( gnu_optind < argc && NONOPTION_P )
        gnu_optind++;
      last_nonopt = gnu_optind;
    }

    /*
The special ARGV-element `--' means premature end of options.
    Skip it like a null option,
    then exchange with previous non-options as if it were an option,
    then skip everything else like a non-option.  */

    if ( gnu_optind != argc && !strcmp (argv[gnu_optind], "--") ) {
      gnu_optind++;

      if ( first_nonopt != last_nonopt && last_nonopt != gnu_optind )
        exchange ((char **) argv);
      else if ( first_nonopt == last_nonopt )
        first_nonopt = gnu_optind;
      last_nonopt = argc;

      gnu_optind = argc;
    }

    /* If we have done all the ARGV-elements, stop the scan
    and back over any non-options that we skipped and permuted.  */

    if ( gnu_optind == argc ) {
      /* Set the next-arg-index to point at the non-options
        that we previously skipped, so the caller will digest them.  */
      if ( first_nonopt != last_nonopt
)
        gnu_optind = first_nonopt;
```

```
        return -1;
      }

      /* If we have come to a non-option and did not permute it,
     either stop the scan or describe it to the caller and pass it by.  */

      if ( NONOPTION_P ) {
        if ( ordering == REQUIRE_ORDER )
          return -1;
        gnu_optarg = argv[gnu_optind++];
        return 1;
      }

      /* We have found another option-ARGV-element.
     Skip the initial punctuation.  */

      nextchar = (argv[gnu_optind] + 1
                + (longopts != NULL && argv[gnu_optind][1] == '-'));
  }

  /* Decode the current option-ARGV-element.  */

  /* Check whether the ARGV-element is a long option.

     If long_only and the ARGV-element has the form "-f", where f is
     a valid short option, don't consider it an abbreviated form of
     a long option that starts with f.  Otherwise there would be no
     way to give the -f short
option.

     On the other hand, if there's a long option "fubar" and
     the ARGV-element is "-fu", do consider that an abbreviation of
     the long option, just like "--fu", and not "-f" with arg "u".

     This distinction seems to be the most useful approach.  */

  if ( longopts != NULL
       && (argv[gnu_optind][1] == '-'
           || (long_only && (argv[gnu_optind][2] || !my_index (optstring, argv[gnu_optind][1])))) ) {
      char *nameend;
      const struct option *p;
      const struct option *pfound = NULL;
      int exact = 0;
      int ambig = 0;
      int indfound = -1;
      int option_index;

      for ( nameend = nextchar; *nameend && *nameend != '='; nameend++ )
```

```
        /* Do nothing.  */ ;

      /* Test all long options for either exact match
     or abbreviated matches.  */
      for ( p = longopts, option_index = 0; p->name; p++, option_index++ )
        if ( !strncmp (p->name, nextchar, nameend
- nextchar) ) {
            if ( (unsigned int) (nameend - nextchar)
                 == (unsigned int) strlen (p->name) ) {
              /* Exact match found.  */
              pfound = p;
              indfound = option_index;
              exact = 1;
              break;
            } else if ( pfound == NULL ) {
              /* First nonexact match found.  */
              pfound = p;
              indfound = option_index;
            } else
              /* Second or later nonexact match found.  */
              ambig = 1;
        }

      if ( ambig && !exact ) {
        if ( gnu_opterr )
          fprintf (stderr, _("%s: option `%s' is ambiguous\n"),
                   argv[0], argv[gnu_optind]);
        nextchar += strlen (nextchar);
        gnu_optind++;
        gnu_optopt = 0;
        return '?';
      }

      if ( pfound !=
NULL ) {
        option_index = indfound;
        gnu_optind++;
        if ( *nameend ) {
          /* Don't test has_arg with >, because some C compilers don't
         allow it to be used on enums.  */
          if ( pfound->has_arg )
            gnu_optarg = nameend + 1;
          else {
            if ( gnu_opterr ) {
              if ( argv[gnu_optind - 1][1] == '-' ) {
                /* --option */
                fprintf (stderr,
                         _("%s: option `--%s' doesn't allow an argument\n"),
```

```
                    argv[0], pfound->name);
            } else {
              /* +option or -option */
              fprintf (stderr,
                    _("%s: option `%c%s' doesn't allow an argument\n"),
                    argv[0], argv[gnu_optind - 1][0], pfound->name);
             }
          }

          nextchar += strlen (nextchar);

          gnu_optopt = pfound->val;
          return '?';
        }
      } else if ( pfound->has_arg == 1 ) {
        if ( gnu_optind < argc )
          gnu_optarg = argv[gnu_optind++];
        else {
          if ( gnu_opterr )
            fprintf (stderr,
                  _("%s: option `%s' requires an argument\n"),
                  argv[0], argv[gnu_optind - 1]);
          nextchar += strlen (nextchar);
          gnu_optopt = pfound->val;
          return optstring[0] == ':' ? ':' : '?';
        }
      }
      nextchar += strlen (nextchar);
      if ( longind != NULL )
        *longind = option_index;
      if ( pfound->flag ) {
        *(pfound->flag) = pfound->val;
         return 0;
      }
      return pfound->val;
    }

     /* Can't find it as a long option.  If this is not gnu_getopt_long_only,
    or the option starts with '--' or is not a valid short
    option, then it's an error.
    Otherwise interpret it as a short option.  */
     if ( !long_only || argv[gnu_optind][1] == '-'
         || my_index (optstring, *nextchar) == NULL ) {
      if ( gnu_opterr ) {
        if ( argv[gnu_optind][1] == '-' )
          /* --option */
          fprintf (stderr, _("%s: unrecognized option `--%s'\n"),
                argv[0], nextchar);
```

```
            else
              /* +option or -option */
              fprintf (stderr, _("%s: unrecognized option `%c%s'\n"),
                       argv[0], argv[gnu_optind][0], nextchar);
          }
          nextchar = (char *) "";
          gnu_optind++;
          gnu_optopt
= 0;
          return '?';
        }
      }

      /* Look at and handle the next short option-character.  */

      {
        char c = *nextchar++;
        char *temp = my_index (optstring, c);

        /* Increment `gnu_optind' when we start to process its last character.  */
        if ( *nextchar == '\0' )
          ++gnu_optind;

        if ( temp == NULL || c == ':' ) {
          if ( gnu_opterr ) {
            if ( posixly_correct )
              /* 1003.2 specifies the format of this message.  */
              fprintf (stderr, _("%s: illegal option -- %c\n"),
                       argv[0], c);
            else
              fprintf (stderr, _("%s: invalid option -- %c\n"),
                       argv[0], c);
          }
          gnu_optopt = c;
          return '?';
        }
        /* Convenience. Treat POSIX -W foo same as long option --foo */
        if ( temp[0] == 'W' && temp[1] == ';' )
{
          char *nameend;
          const struct option *p;
          const struct option *pfound = NULL;
          int exact = 0;
          int ambig = 0;
          int indfound = 0;
          int option_index;

          /* This is an option that requires an argument.  */
```

```
if ( *nextchar != '\0' ) {
    gnu_optarg = nextchar;
    /* If we end this ARGV-element by taking the rest as an arg,
       we must advance to the next element now.  */
    gnu_optind++;
 } else if ( gnu_optind == argc ) {
    if ( gnu_opterr ) {
       /* 1003.2 specifies the format of this message.  */
       fprintf (stderr, _("%s: option requires an argument -- %c\n"),
                argv[0], c);
    }
    gnu_optopt = c;
    if ( optstring[0] == ':' )
       c = ':';
    else

c = '?';
    return c;
 } else
    /* We already incremented `gnu_optind' once;
       increment it again when taking next ARGV-elt as argument.  */
    gnu_optarg = argv[gnu_optind++];

 /* gnu_optarg is now the argument, see if it's in the
    table of longopts.  */

 for ( nextchar = nameend = gnu_optarg; *nameend && *nameend != '='; nameend++ )
    /* Do nothing.  */ ;

 /* Test all long options for either exact match
    or abbreviated matches.  */
 for ( p = longopts, option_index = 0; p->name; p++, option_index++ )
    if ( !strncmp (p->name, nextchar, nameend - nextchar) ) {
       if ( (unsigned int) (nameend - nextchar) == strlen (p->name) ) {
          /* Exact match found.  */
          pfound = p;
          indfound = option_index;

    exact = 1;
          break;
       } else if ( pfound == NULL ) {
          /* First nonexact match found.  */
          pfound = p;
          indfound = option_index;
       } else
          /* Second or later nonexact match found.  */
          ambig = 1;
    }
```

```
        if ( ambig && !exact ) {
          if ( gnu_opterr )
            fprintf (stderr, _("%s: option `-W %s' is ambiguous\n"),
                     argv[0], argv[gnu_optind]);
          nextchar += strlen (nextchar);
          gnu_optind++;
          return '?';
        }
        if ( pfound != NULL ) {
          option_index = indfound;
          if ( *nameend ) {
            /* Don't test has_arg with >, because some C compilers don't
              allow it to be used on enums.  */

           if ( pfound->has_arg )
              gnu_optarg = nameend + 1;
            else {
              if ( gnu_opterr )
                fprintf (stderr, _("\
%s: option `-W %s' doesn't allow an argument\n"),
                         argv[0], pfound->name);

              nextchar += strlen (nextchar);
              return '?';
            }
          } else if ( pfound->has_arg == 1 ) {
            if ( gnu_optind < argc )
              gnu_optarg = argv[gnu_optind++];
            else {
              if ( gnu_opterr )
                fprintf (stderr,
                         _("%s: option `%s' requires an argument\n"),
                         argv[0], argv[gnu_optind - 1]);
              nextchar += strlen (nextchar);
              return optstring[0] == ':' ? ':' : '?';

           }
            }
          nextchar += strlen (nextchar);
          if ( longind != NULL )
            *longind = option_index;
          if ( pfound->flag ) {
            *(pfound->flag) = pfound->val;
            return 0;
          }
          return pfound->val;
        }
        nextchar = NULL;
```

```
        return 'W';   /* Let the application handle it.   */
      }
      if ( temp[1] == ':' ) {
        if ( temp[2] == ':' ) {
          /* This is an option that accepts an argument optionally.  */
          if ( *nextchar != '\0' ) {
            gnu_optarg = nextchar;
            gnu_optind++;
          } else
            gnu_optarg = NULL;
          nextchar = NULL;
        } else {
          /* This is an option that requires an argument.  */
          if ( *nextchar != '\0' ) {
            gnu_optarg
= nextchar;
            /* If we end this ARGV-element by taking the rest as an arg,
              we must advance to the next element now.  */
            gnu_optind++;
          } else if ( gnu_optind == argc ) {
            if ( gnu_opterr ) {
              /* 1003.2 specifies the format of this message.  */
              fprintf (stderr,
                       _("%s: option requires an argument -- %c\n"),
                       argv[0], c);
            }
            gnu_optopt = c;
            if ( optstring[0] == ':' )
              c = ':';
            else
              c = '?';
          } else
            /* We already incremented `gnu_optind' once;
              increment it again when taking next ARGV-elt as argument.  */
            gnu_optarg = argv[gnu_optind++];
          nextchar = NULL;
        }
      }
      return c;
    }
}

int
gnu_getopt ( int argc,
          char *const *argv,
          const char *optstring ) {
  return _gnu_getopt_internal (argc, argv, optstring,
                       (const struct option *) 0,
```

```
                        (int *) 0,
                        0);
}

#ifdef __cplusplus
} /* end extern "C" */
#endif


#ifdef TEST

/* Compile with -DTEST to make an executable for use in testing
  the above definition of `gnu_getopt'.  */

int
main (argc, argv)
int argc;
char **argv;
{
int c;
int digit_optind = 0;

while ( 1 ) {
  int this_option_optind = gnu_optind ? gnu_optind : 1;

  c = gnu_getopt (argc, argv, "abc:d:0123456789");
  if ( c == -1 )
     break;

  switch ( c ) {
     case '0':
     case '1':
     case '2':
     case '3':
     case '4':
     case '5':
     case '6':
     case '7':
     case '8':

     case '9':
        if ( digit_optind != 0 && digit_optind != this_option_optind )
           fprintf ( stderr, "digits occur in two different argv-elements.\n");
        digit_optind = this_option_optind;
        fprintf ( stderr, "option %c\n", c);
        break;

     case 'a':
```

```
            fprintf ( stderr, "option a\n");
            break;

        case 'b':
            fprintf ( stderr, "option b\n");
            break;

        case 'c':
            fprintf ( stderr, "option c with value `%s'\n", gnu_optarg);
            break;

        case '?':
            break;

        default:
            fprintf ( stderr, "?? gnu_getopt returned character code 0%o ??\n", c);
    }
}

if ( gnu_optind < argc ) {
    fprintf (stderr, "non-option ARGV-elements: ");
    while ( gnu_optind < argc )
        fprintf ( stderr, "%s ", argv[gnu_optind++]);
    fprintf ( stderr, "\n");
}

exit (0);
}

#endif /* TEST */
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<!-- $Id: ui_license.html,v 1.1.1.1 2004/05/18 01:50:44 kgibbs Exp $ -->
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<P><IMG SRC="dast.gif"
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```

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<P>

Iperf performance test
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1.165 bind 9.11.8

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

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

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
```

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

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

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

 <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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*/

/*! \file
*  \note
* Notice to programmers:  Do not use this code as an example of how to
* use the ISC library to perform DNS lookups.  Dig and Host both operate
* on the request level, since they allow fine-tuning of output and are
* intended as debugging tools.  As a result, they perform many of the
* functions which could be better handled using the dns_resolver
* functions in most applications.
*/

#include <config.h>

#include <inttypes.h>
#include <stdbool.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <limits.h>
#include <errno.h>

#ifdef
 HAVE_LOCALE_H
#include <locale.h>
#endif

#ifdef WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
#include <idn/result.h>
#include <idn/log.h>
#include <idn/resconf.h>
#include <idn/api.h>
#endif
```

```
#ifdef WITH_LIBIDN2
#include <idn2.h>
#endif
#endif /* WITH_IDN_SUPPORT */

#include <dns/byaddr.h>
#ifdef DIG_SIGCHASE
#include <dns/callbacks.h>
#include <dns/dnssec.h>
#include <dns/ds.h>
#include <dns/master.h>
#include <dns/nsec.h>
#include <isc/random.h>
#include <ctype.h>
#endif
#include <dns/fixedname.h>
#include <dns/log.h>
#include <dns/message.h>
#include <dns/name.h>
#include <dns/rcode.h>
#include <dns/rdata.h>
#include <dns/rdataclass.h>
#include <dns/rdatalist.h>
#include <dns/rdataset.h>
#include <dns/rdatastruct.h>
#include <dns/rdatatype.h>
#include <dns/result.h>
#include <dns/tsig.h>

#include <dst/dst.h>
#include <dst/result.h>

#include <isc/app.h>
#include <isc/base64.h>
#include <isc/entropy.h>
#include <isc/file.h>
#include <isc/hex.h>
#include
 <isc/lang.h>
#include <isc/log.h>
#include <isc/netaddr.h>
#include <isc/netdb.h>
#include <isc/parseint.h>
#include <isc/print.h>
#include <isc/random.h>
#include <isc/result.h>
#include <isc/safe.h>
```

```
#include <isc/serial.h>
#include <isc/sockaddr.h>
#include <isc/string.h>
#include <isc/task.h>
#include <isc/timer.h>
#include <isc/types.h>
#include <isc/util.h>

#include <pk11/site.h>

#include <isccfg/namedconf.h>

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

#include <bind9/getaddresses.h>

#include <dig/dig.h>

#ifdef PKCS11CRYPTO
#include <pk11/result.h>
#endif

#if ! defined(NS_INADDRSZ)
#define NS_INADDRSZ  4
#endif

#if ! defined(NS_IN6ADDRSZ)
#define NS_IN6ADDRSZ 16
#endif

static lwres_context_t *lwctx = NULL;
static lwres_conf_t *lwconf;

dig_lookuplist_t lookup_list;
dig_serverlist_t server_list;
dig_searchlistlist_t search_list;

bool
 check_ra = false,
 have_ipv4 = false,
 have_ipv6 = false,
 specified_source
 = false,
 free_now = false,
 cancel_now = false,
 usesearch = false,
 showsearch = false,
```

```
 qr = false,
 is_dst_up = false,
 keep_open = false,
 verbose = false;
in_port_t port = 53;
unsigned int timeout = 0;
unsigned int extrabytes;
isc_mem_t *mctx = NULL;
isc_log_t *lctx = NULL;
isc_taskmgr_t *taskmgr = NULL;
isc_task_t *global_task = NULL;
isc_timermgr_t *timermgr = NULL;
isc_socketmgr_t *socketmgr = NULL;
isc_sockaddr_t bind_address;
isc_sockaddr_t bind_any;
int sendcount = 0;
int recvcount = 0;
int sockcount = 0;
int ndots = -1;
int tries = 3;
int lookup_counter = 0;

static char servercookie[256];

#ifdef WITH_IDN_SUPPORT
static void idn_initialize(void);
static isc_result_t idn_locale_to_ace(const char *from,
  char *to,
  size_t tolen);
#endif /* WITH_IDN_SUPPORT */

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t idn_ace_to_locale(const char *from,
  char *to,
  size_t tolen);
static isc_result_t output_filter(isc_buffer_t *buffer,
  unsigned
 int used_org,
  bool absolute);
#define MAXDLEN 256

#ifdef WITH_IDNKIT
int idnoptions = 0;
#endif
#endif /* WITH_IDN_OUT_SUPPORT */

isc_socket_t *keep = NULL;
isc_sockaddr_t keepaddr;
```

```
/*%
* Exit Codes:
*
*\li 0   Everything went well, including things like NXDOMAIN
*\li 1   Usage error
*\li 7   Got too many RR's or Names
*\li 8   Couldn't open batch file
*\li 9   No reply from server
*\li 10  Internal error
*/
int exitcode = 0;
int fatalexit = 0;
char keynametext[MXNAME];
char keyfile[MXNAME] = "";
char keysecret[MXNAME] = "";
unsigned char cookie_secret[33];
unsigned char cookie[8];
dns_name_t *hmacname = NULL;
unsigned int digestbits = 0;
isc_buffer_t *namebuf = NULL;
dns_tsigkey_t *tsigkey = NULL;
bool validated = true;
isc_entropy_t *entp = NULL;
isc_mempool_t *commctx = NULL;
bool debugging = false;
bool debugtiming = false;
bool memdebugging = false;
char *progname = NULL;
isc_mutex_t lookup_lock;
dig_lookup_t *current_lookup
 = NULL;

#ifdef DIG_SIGCHASE

isc_result_t   get_trusted_key(void);
dns_rdataset_t *  sigchase_scanname(dns_rdatatype_t type,
        dns_rdatatype_t covers,
        bool *lookedup,
        dns_name_t *rdata_name);
dns_rdataset_t *  chase_scanname_section(dns_message_t *msg,
      dns_name_t *name,
      dns_rdatatype_t type,
      dns_rdatatype_t covers,
      int section);
isc_result_t   advanced_rrsearch(dns_rdataset_t **rdataset,
        dns_name_t *name,
        dns_rdatatype_t type,
```

```
        dns_rdatatype_t covers,
        bool *lookedup);
isc_result_t   sigchase_verify_sig_key(dns_name_t *name,
       dns_rdataset_t *rdataset,
       dst_key_t* dnsseckey,
       dns_rdataset_t *sigrdataset);
isc_result_t   sigchase_verify_sig(dns_name_t *name,
         dns_rdataset_t *rdataset,
         dns_rdataset_t *keyrdataset,
         dns_rdataset_t *sigrdataset);
isc_result_t   sigchase_verify_ds(dns_name_t *name,
        dns_rdataset_t *keyrdataset,

     dns_rdataset_t *dsrdataset);
void    sigchase(dns_message_t *msg);
void    print_rdata(dns_rdata_t *rdata, isc_mem_t *mctx);
void    print_rdataset(dns_name_t *name, dns_rdataset_t *rdataset);
void    dup_name(dns_name_t *source, dns_name_t* target);
void    free_name(dns_name_t *name);
void    dump_database(void);
void    dump_database_section(dns_message_t *msg, int section);
dns_rdataset_t *  search_type(dns_name_t *name, dns_rdatatype_t type,
        dns_rdatatype_t covers);
isc_result_t   contains_trusted_key(dns_name_t *name,
          dns_rdataset_t *rdataset,
          dns_rdataset_t *sigrdataset);
void    print_type(dns_rdatatype_t type);
isc_result_t   prove_nx_domain(dns_message_t * msg,
      dns_name_t * name,
      dns_name_t * rdata_name,
      dns_rdataset_t ** rdataset,
      dns_rdataset_t ** sigrdataset);
isc_result_t   prove_nx_type(dns_message_t * msg, dns_name_t *name,
    dns_rdataset_t *nsec,
    dns_rdataclass_t rdclass,
    dns_rdatatype_t
 type,
    dns_name_t * rdata_name,
    dns_rdataset_t ** rdataset,
    dns_rdataset_t ** sigrdataset);
isc_result_t   prove_nx(dns_message_t * msg, dns_name_t * name,
      dns_rdataclass_t rdclass,
      dns_rdatatype_t type,
      dns_name_t * rdata_name,
      dns_rdataset_t ** rdataset,
      dns_rdataset_t ** sigrdataset);
static void   nameFromString(const char *str, dns_name_t *p_ret);
int    inf_name(dns_name_t * name1, dns_name_t * name2);
```

```
isc_result_t   removetmpkey(const char *file);
void    clean_trustedkey(void);
isc_result_t    insert_trustedkey(void *arg, dns_name_t *name,
       dns_rdataset_t *rdataset);
#if DIG_SIGCHASE_BU
isc_result_t   getneededrr(dns_message_t *msg);
void    sigchase_bottom_up(dns_message_t *msg);
void    sigchase_bu(dns_message_t *msg);
#endif
#if DIG_SIGCHASE_TD
isc_result_t   initialization(dns_name_t *name);
isc_result_t   prepare_lookup(dns_name_t *name);
isc_result_t   grandfather_pb_test(dns_name_t
 * zone_name,
        dns_rdataset_t *sigrdataset);
isc_result_t   child_of_zone(dns_name_t *name,
   dns_name_t *zone_name,
   dns_name_t *child_name);
void    sigchase_td(dns_message_t *msg);
#endif
char trustedkey[MXNAME] = "";

dns_rdataset_t *chase_rdataset = NULL;
dns_rdataset_t *chase_sigrdataset = NULL;
dns_rdataset_t *chase_dsrdataset = NULL;
dns_rdataset_t *chase_sigdsrdataset = NULL;
dns_rdataset_t *chase_keyrdataset = NULL;
dns_rdataset_t *chase_sigkeyrdataset = NULL;
dns_rdataset_t *chase_nsrdataset = NULL;

dns_name_t chase_name; /* the query name */
#if DIG_SIGCHASE_TD
/*
* the current name is the parent name when we follow delegation
*/
dns_name_t chase_current_name;
/*
* the child name is used for delegation (NS DS responses in AUTHORITY section)
*/
dns_name_t chase_authority_name;
#endif
#if DIG_SIGCHASE_BU
dns_name_t chase_signame;
#endif


bool chase_siglookedup = false;
bool chase_keylookedup = false;
```

```
bool chase_sigkeylookedup
 = false;
bool chase_dslookedup = false;
bool chase_sigdslookedup = false;
#if DIG_SIGCHASE_TD
bool chase_nslookedup = false;
bool chase_lookedup = false;


bool delegation_follow = false;
bool grandfather_pb = false;
bool have_response = false;
bool have_delegation_ns = false;
dns_message_t * error_message = NULL;
#endif

bool dsvalidating = false;
bool chase_name_dup = false;

ISC_LIST(dig_message_t) chase_message_list;
ISC_LIST(dig_message_t) chase_message_list2;


#define MAX_TRUSTED_KEY 5
typedef struct struct_trusted_key_list {
 dst_key_t * key[MAX_TRUSTED_KEY];
 int nb_tk;
} struct_tk_list;

struct_tk_list tk_list = { {NULL, NULL, NULL, NULL, NULL}, 0};

#endif

#define DIG_MAX_ADDRESSES 20

/*%
* Apply and clear locks at the event level in global task.
* Can I get rid of these using shutdown events?  XXX
*/
#define LOCK_LOOKUP {\
 debug("lock_lookup %s:%d", __FILE__, __LINE__);\
 check_result(isc_mutex_lock((&lookup_lock)), "isc_mutex_lock");\
 debug("success");\
}
#define
 UNLOCK_LOOKUP {\
 debug("unlock_lookup %s:%d", __FILE__, __LINE__);\
 check_result(isc_mutex_unlock((&lookup_lock)),\
```

```
        "isc_mutex_unlock");\
}

/* dynamic callbacks */

#ifdef DIG_SIGCHASE
isc_result_t
(*dighost_printrdataset)(dns_name_t *owner_name, dns_rdataset_t *rdataset,
   isc_buffer_t *target);
#endif

isc_result_t
(*dighost_printmessage)(dig_query_t *query, dns_message_t *msg,
 bool headers);

void
(*dighost_received)(unsigned int bytes, isc_sockaddr_t *from, dig_query_t *query);

void
(*dighost_trying)(char *frm, dig_lookup_t *lookup);

void
(*dighost_shutdown)(void);

/* forward declarations */

static void
cancel_lookup(dig_lookup_t *lookup);

static void
recv_done(isc_task_t *task, isc_event_t *event);

static void
send_udp(dig_query_t *query);

static void
connect_timeout(isc_task_t *task, isc_event_t *event);

static void
launch_next_query(dig_query_t *query, bool include_question);

static
 void
check_next_lookup(dig_lookup_t *lookup);

static bool
next_origin(dig_lookup_t *oldlookup);
```

```
static void *
mem_alloc(void *arg, size_t size) {
 return (isc_mem_get(arg, size));
}

static void
mem_free(void *arg, void *mem, size_t size) {
 isc_mem_put(arg, mem, size);
}

char *
next_token(char **stringp, const char *delim) {
 char *res;

 do {
  res = strsep(stringp, delim);
  if (res == NULL)
   break;
 } while (*res == '\0');
 return (res);
}

static int
count_dots(char *string) {
 char *s;
 int i = 0;

 s = string;
 while (*s != '\0') {
  if (*s == '.')
   i++;
  s++;
 }
 return (i);
}

static void
hex_dump(isc_buffer_t *b) {
 unsigned int len, i;
 isc_region_t r;

 isc_buffer_usedregion(b, &r);

 printf("%u bytes\n", r.length);
 for (len = 0; len < r.length; len++) {
  printf("%02x ", r.base[len]);
  if (len % 16 == 15) {
   fputs("         ", stdout);
```

```
   for (i = len - 15; i <= len; i++) {
    if (r.base[i]
 >= '!' && r.base[i] <= '}')
     putchar(r.base[i]);
    else
     putchar('.');
   }
   printf("\n");
  }
 }
 if (len % 16 != 0) {
  for (i = len; (i % 16) != 0; i++)
   fputs("   ", stdout);
  fputs("         ", stdout);
  for (i = ((len>>4)<<4); i < len; i++) {
   if (r.base[i] >= '!' && r.base[i] <= '}')
    putchar(r.base[i]);
   else
    putchar('.');
  }
  printf("\n");
 }
}

/*%
* Append 'len' bytes of 'text' at '*p', failing with
* ISC_R_NOSPACE if that would advance p past 'end'.
*/
static isc_result_t
append(const char *text, size_t len, char **p, char *end) {
 if (*p + len > end)
  return (ISC_R_NOSPACE);
 memmove(*p, text, len);
 *p += len;
 return (ISC_R_SUCCESS);
}

static isc_result_t
reverse_octets(const char *in, char **p, char *end) {
 const char *dot = strchr(in, '.');
 size_t len;
 if (dot != NULL) {
  isc_result_t result;
  result = reverse_octets(dot + 1, p, end);
  if (result != ISC_R_SUCCESS)
   return (result);
  result
```

```
 = append(".", 1, p, end);
  if (result != ISC_R_SUCCESS)
   return (result);
  len = (int) (dot - in);
  } else {
  len = (int) strlen(in);
  }
  return (append(in, len, p, end));
}

isc_result_t
get_reverse(char *reverse, size_t len, char *value, bool ip6_int,
     bool strict)
{
  int r;
  isc_result_t result;
  isc_netaddr_t addr;

  addr.family = AF_INET6;
  r = inet_pton(AF_INET6, value, &addr.type.in6);
  if (r > 0) {
   /* This is a valid IPv6 address. */
   dns_fixedname_t fname;
   dns_name_t *name;
   unsigned int options = 0;

   if (ip6_int)
    options |= DNS_BYADDROPT_IPV6INT;
   name = dns_fixedname_initname(&fname);
   result = dns_byaddr_createptrname2(&addr, options, name);
   if (result != ISC_R_SUCCESS)
    return (result);
   dns_name_format(name, reverse, (unsigned int)len);
   return (ISC_R_SUCCESS);
  } else {
   /*
    * Not a valid IPv6 address.  Assume IPv4.
    * If 'strict' is not set, construct the
    * in-addr.arpa name by blindly reversing

  * octets whether or not they look like integers,
    * so that this can be used for RFC2317 names
    * and such.
    */
   char *p = reverse;
   char *end = reverse + len;
   if (strict && inet_pton(AF_INET, value, &addr.type.in) != 1)
    return (DNS_R_BADDOTTEDQUAD);
```

```
 result = reverse_octets(value, &p, end);
 if (result != ISC_R_SUCCESS)
  return (result);
 /* Append .in-addr.arpa. and a terminating NUL. */
 result = append(".in-addr.arpa.", 15, &p, end);
 if (result != ISC_R_SUCCESS)
  return (result);
 return (ISC_R_SUCCESS);
 }
}

void
fatal(const char *format, ...) {
 va_list args;

 fflush(stdout);
 fprintf(stderr, "%s: ", progname);
 va_start(args, format);
 vfprintf(stderr, format, args);
 va_end(args);
 fprintf(stderr, "\n");
 if (exitcode < 10)
  exitcode = 10;
 if (fatalexit != 0)
  exitcode = fatalexit;
 exit(exitcode);
}

void
debug(const char *format, ...) {
 va_list args;
 isc_time_t t;

 if (debugging) {
  fflush(stdout);
  if
 (debugtiming) {
   TIME_NOW(&t);
   fprintf(stderr, "%u.%06u: ", isc_time_seconds(&t),
    isc_time_nanoseconds(&t) / 1000);
  }
  va_start(args, format);
  vfprintf(stderr, format, args);
  va_end(args);
  fprintf(stderr, "\n");
 }
}
```

```
void
check_result(isc_result_t result, const char *msg) {
 if (result != ISC_R_SUCCESS) {
  fatal("%s: %s", msg, isc_result_totext(result));
 }
}

/*%
* Create a server structure, which is part of the lookup structure.
* This is little more than a linked list of servers to query in hopes
* of finding the answer the user is looking for
*/
dig_server_t *
make_server(const char *servname, const char *userarg) {
 dig_server_t *srv;

 REQUIRE(servname != NULL);

 debug("make_server(%s)", servname);
 srv = isc_mem_allocate(mctx, sizeof(struct dig_server));
 if (srv == NULL)
  fatal("memory allocation failure in %s:%d",
        __FILE__, __LINE__);
 strlcpy(srv->servername, servname, MXNAME);
 strlcpy(srv->userarg,
 userarg, MXNAME);
 ISC_LINK_INIT(srv, link);
 return (srv);
}

static int
addr2af(int lwresaddrtype)
{
 int af = 0;

 switch (lwresaddrtype) {
 case LWRES_ADDRTYPE_V4:
  af = AF_INET;
  break;

 case LWRES_ADDRTYPE_V6:
  af = AF_INET6;
  break;
 }

 return (af);
}
```

```
/*%
* Create a copy of the server list from the lwres configuration structure.
* The dest list must have already had ISC_LIST_INIT applied.
*/
static void
copy_server_list(lwres_conf_t *confdata, dig_serverlist_t *dest) {
 dig_server_t *newsrv;
 char tmp[sizeof("ffff:ffff:ffff:ffff:ffff:ffff:255.255.255.255") +
   sizeof("%4000000000")];
 int af;
 int i;

 debug("copy_server_list()");
 for (i = 0; i < confdata->nsnext; i++) {
  af = addr2af(confdata->nameservers[i].family);

  if (af == AF_INET && !have_ipv4)
   continue;
  if (af == AF_INET6 && !have_ipv6)
   continue;

  lwres_net_ntop(af, confdata->nameservers[i].address,
       tmp, sizeof(tmp));
  if (af == AF_INET6
  && confdata->nameservers[i].zone != 0) {
   char buf[sizeof("%4000000000")];
   snprintf(buf, sizeof(buf), "%%%u",
     confdata->nameservers[i].zone);
   strlcat(tmp, buf, sizeof(tmp));
  }
  newsrv = make_server(tmp, tmp);
  ISC_LINK_INIT(newsrv, link);
  ISC_LIST_ENQUEUE(*dest, newsrv, link);
 }
}

void
flush_server_list(void) {
 dig_server_t *s, *ps;

 debug("flush_server_list()");
 s = ISC_LIST_HEAD(server_list);
 while (s != NULL) {
  ps = s;
  s = ISC_LIST_NEXT(s, link);
  ISC_LIST_DEQUEUE(server_list, ps, link);
  isc_mem_free(mctx, ps);
 }
```

```
}

void
set_nameserver(char *opt) {
 isc_result_t result;
 isc_sockaddr_t sockaddrs[DIG_MAX_ADDRESSES];
 isc_netaddr_t netaddr;
 int count, i;
 dig_server_t *srv;
 char tmp[ISC_NETADDR_FORMATSIZE];

 if (opt == NULL)
  return;

 result = bind9_getaddresses(opt, 0, sockaddrs,
       DIG_MAX_ADDRESSES, &count);
 if (result != ISC_R_SUCCESS)
  fatal("couldn't get address for '%s': %s",
       opt,
 isc_result_totext(result));

 flush_server_list();

 for (i = 0; i < count; i++) {
  isc_netaddr_fromsockaddr(&netaddr, &sockaddrs[i]);
  isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
  srv = make_server(tmp, opt);
  if (srv == NULL)
   fatal("memory allocation failure");
  ISC_LIST_APPEND(server_list, srv, link);
 }
}

static isc_result_t
add_nameserver(lwres_conf_t *confdata, const char *addr, int af) {

 int i = confdata->nsnext;

 if (confdata->nsnext >= LWRES_CONFMAXNAMESERVERS)
  return (ISC_R_FAILURE);

 switch (af) {
 case AF_INET:
  confdata->nameservers[i].family = LWRES_ADDRTYPE_V4;
  confdata->nameservers[i].length = NS_INADDRSZ;
  break;
 case AF_INET6:
  confdata->nameservers[i].family = LWRES_ADDRTYPE_V6;
```

```
 confdata->nameservers[i].length = NS_IN6ADDRSZ;
 break;
default:
 return (ISC_R_FAILURE);
 }

 if (lwres_net_pton(af, addr, &confdata->nameservers[i].address) == 1) {
  confdata->nsnext++;
  return (ISC_R_SUCCESS);
 }
 return
 (ISC_R_FAILURE);
}

/*%
* Produce a cloned server list.  The dest list must have already had
* ISC_LIST_INIT applied.
*/
void
clone_server_list(dig_serverlist_t src, dig_serverlist_t *dest) {
 dig_server_t *srv, *newsrv;

 debug("clone_server_list()");
 srv = ISC_LIST_HEAD(src);
 while (srv != NULL) {
  newsrv = make_server(srv->servername, srv->userarg);
  ISC_LINK_INIT(newsrv, link);
  ISC_LIST_ENQUEUE(*dest, newsrv, link);
  srv = ISC_LIST_NEXT(srv, link);
 }
}

/*%
* Create an empty lookup structure, which holds all the information needed
* to get an answer to a user's question.  This structure contains two
* linked lists: the server list (servers to query) and the query list
* (outstanding queries which have been made to the listed servers).
*/
dig_lookup_t *
make_empty_lookup(void) {
 dig_lookup_t *looknew;

 debug("make_empty_lookup()");

 INSIST(!free_now);

 looknew = isc_mem_allocate(mctx, sizeof(struct dig_lookup));
 if (looknew
```

```
 == NULL)
  fatal("memory allocation failure in %s:%d",
        __FILE__, __LINE__);
 looknew->pending = true;
 looknew->textname[0] = 0;
 looknew->cmdline[0] = 0;
 looknew->rdtype = dns_rdatatype_a;
 looknew->qrdtype = dns_rdatatype_a;
 looknew->rdclass = dns_rdataclass_in;
 looknew->rdtypeset = false;
 looknew->rdclassset = false;
 looknew->sendspace = NULL;
 looknew->sendmsg = NULL;
 looknew->name = NULL;
 looknew->oname = NULL;
 looknew->xfr_q = NULL;
 looknew->current_query = NULL;
 looknew->doing_xfr = false;
 looknew->ixfr_serial = 0;
 looknew->trace = false;
 looknew->trace_root = false;
 looknew->identify = false;
 looknew->identify_previous_line = false;
 looknew->ignore = false;
 looknew->servfail_stops = true;
 looknew->besteffort = true;
 looknew->dnssec = false;
 looknew->ednsflags = 0;
 looknew->opcode = dns_opcode_query;
 looknew->expire = false;
 looknew->nsid = false;
 looknew->header_only = false;
 looknew->sendcookie = false;
 looknew->seenbadcookie
 = false;
 looknew->badcookie = true;
#ifdef WITH_IDN_SUPPORT
 looknew->idnin = isatty(1)?(getenv("IDN_DISABLE") == NULL):false;
#else
 looknew->idnin = false;
#endif
#ifdef WITH_IDN_OUT_SUPPORT
 looknew->idnout = looknew->idnin;
#else
 looknew->idnout = false;
#endif
#ifdef DIG_SIGCHASE
 looknew->sigchase = false;
```

```
#if DIG_SIGCHASE_TD
 looknew->do_topdown = false;
 looknew->trace_root_sigchase = false;
 looknew->rdtype_sigchaseset = false;
 looknew->rdtype_sigchase = dns_rdatatype_any;
 looknew->qrdtype_sigchase = dns_rdatatype_any;
 looknew->rdclass_sigchase = dns_rdataclass_in;
 looknew->rdclass_sigchaseset = false;
#endif
#endif
 looknew->udpsize = 0;
 looknew->edns = -1;
 looknew->recurse = true;
 looknew->aaonly = false;
 looknew->adflag = false;
 looknew->cdflag = false;
 looknew->print_unknown_format = false;
 looknew->zflag = false;
 looknew->ns_search_only = false;
 looknew->origin = NULL;
 looknew->tsigctx = NULL;
 looknew->querysig
 = NULL;
 looknew->retries = tries;
 looknew->nsfound = 0;
 looknew->tcp_mode = false;
 looknew->tcp_mode_set = false;
 looknew->ip6_int = false;
 looknew->comments = true;
 looknew->stats = true;
 looknew->section_question = true;
 looknew->section_answer = true;
 looknew->section_authority = true;
 looknew->section_additional = true;
 looknew->new_search = false;
 looknew->done_as_is = false;
 looknew->need_search = false;
 looknew->ecs_addr = NULL;
 looknew->cookie = NULL;
 looknew->ednsopts = NULL;
 looknew->ednsoptscnt = 0;
 looknew->ednsneg = true;
 looknew->mapped = true;
 looknew->dscp = -1;
 looknew->eoferr = 0;
 dns_fixedname_init(&looknew->fdomain);
 ISC_LINK_INIT(looknew, link);
 ISC_LIST_INIT(looknew->q);
```

```
 ISC_LIST_INIT(looknew->connecting);
 ISC_LIST_INIT(looknew->my_server_list);
 return (looknew);
}

#define EDNSOPT_OPTIONS 100U

static void
cloneopts(dig_lookup_t *looknew, dig_lookup_t *lookold) {
 size_t len = sizeof(looknew->ednsopts[0])
 * EDNSOPT_OPTIONS;
 size_t i;
 looknew->ednsopts = isc_mem_allocate(mctx, len);
 if (looknew->ednsopts == NULL)
  fatal("out of memory");
 for (i = 0; i < EDNSOPT_OPTIONS; i++) {
  looknew->ednsopts[i].code = 0;
  looknew->ednsopts[i].length = 0;
  looknew->ednsopts[i].value = NULL;
 }
 looknew->ednsoptscnt = 0;
 if (lookold == NULL || lookold->ednsopts == NULL)
  return;

 for (i = 0; i < lookold->ednsoptscnt; i++) {
  len = lookold->ednsopts[i].length;
  if (len != 0) {
   INSIST(lookold->ednsopts[i].value != NULL);
   looknew->ednsopts[i].value =
     isc_mem_allocate(mctx, len);
   if (looknew->ednsopts[i].value == NULL)
    fatal("out of memory");
   memmove(looknew->ednsopts[i].value,
    lookold->ednsopts[i].value, len);
  }
  looknew->ednsopts[i].code = lookold->ednsopts[i].code;
  looknew->ednsopts[i].length = len;
 }
 looknew->ednsoptscnt = lookold->ednsoptscnt;
}

/*%
* Clone a lookup, perhaps copying the server list.  This does
 not clone
* the query list, since it will be regenerated by the setup_lookup()
* function, nor does it queue up the new lookup for processing.
* Caution: If you don't clone the servers, you MUST clone the server
* list separately from somewhere else, or construct it by hand.
```

```
*/
dig_lookup_t *
clone_lookup(dig_lookup_t *lookold, bool servers) {
 dig_lookup_t *looknew;

 debug("clone_lookup()");

 INSIST(!free_now);

 looknew = make_empty_lookup();
 INSIST(looknew != NULL);
 strlcpy(looknew->textname, lookold->textname, MXNAME);
#if DIG_SIGCHASE_TD
 strlcpy(looknew->textnamesigchase, lookold->textnamesigchase, MXNAME);
#endif
 strlcpy(looknew->cmdline, lookold->cmdline, MXNAME);
 looknew->textname[MXNAME-1] = 0;
 looknew->rdtype = lookold->rdtype;
 looknew->qrdtype = lookold->qrdtype;
 looknew->rdclass = lookold->rdclass;
 looknew->rdtypeset = lookold->rdtypeset;
 looknew->rdclassset = lookold->rdclassset;
 looknew->doing_xfr = lookold->doing_xfr;
 looknew->ixfr_serial
 = lookold->ixfr_serial;
 looknew->trace = lookold->trace;
 looknew->trace_root = lookold->trace_root;
 looknew->identify = lookold->identify;
 looknew->identify_previous_line = lookold->identify_previous_line;
 looknew->ignore = lookold->ignore;
 looknew->servfail_stops = lookold->servfail_stops;
 looknew->besteffort = lookold->besteffort;
 looknew->dnssec = lookold->dnssec;
 looknew->ednsflags = lookold->ednsflags;
 looknew->opcode = lookold->opcode;
 looknew->expire = lookold->expire;
 looknew->nsid = lookold->nsid;
 looknew->header_only = lookold->header_only;
 looknew->sendcookie = lookold->sendcookie;
 looknew->seenbadcookie = lookold->seenbadcookie;
 looknew->badcookie = lookold->badcookie;
 looknew->cookie = lookold->cookie;
 if (lookold->ednsopts != NULL) {
  cloneopts(looknew, lookold);
 } else {
  looknew->ednsopts = NULL;
  looknew->ednsoptscnt = 0;
 }
```

```
 looknew->ednsneg = lookold->ednsneg;
 looknew->mapped = lookold->mapped;
 looknew->idnin
 = lookold->idnin;
 looknew->idnout = lookold->idnout;
#ifdef DIG_SIGCHASE
 looknew->sigchase = lookold->sigchase;
#if DIG_SIGCHASE_TD
 looknew->do_topdown = lookold->do_topdown;
 looknew->trace_root_sigchase = lookold->trace_root_sigchase;
 looknew->rdtype_sigchaseset = lookold->rdtype_sigchaseset;
 looknew->rdtype_sigchase = lookold->rdtype_sigchase;
 looknew->qrdtype_sigchase = lookold->qrdtype_sigchase;
 looknew->rdclass_sigchase = lookold->rdclass_sigchase;
 looknew->rdclass_sigchaseset = lookold->rdclass_sigchaseset;
#endif
#endif
 looknew->udpsize = lookold->udpsize;
 looknew->edns = lookold->edns;
 looknew->recurse = lookold->recurse;
 looknew->aaonly = lookold->aaonly;
 looknew->adflag = lookold->adflag;
 looknew->cdflag = lookold->cdflag;
 looknew->print_unknown_format = lookold->print_unknown_format;
 looknew->zflag = lookold->zflag;
 looknew->ns_search_only = lookold->ns_search_only;
 looknew->tcp_mode = lookold->tcp_mode;
 looknew->tcp_mode_set
 = lookold->tcp_mode_set;
 looknew->comments = lookold->comments;
 looknew->stats = lookold->stats;
 looknew->section_question = lookold->section_question;
 looknew->section_answer = lookold->section_answer;
 looknew->section_authority = lookold->section_authority;
 looknew->section_additional = lookold->section_additional;
 looknew->origin = lookold->origin;
 looknew->retries = lookold->retries;
 looknew->tsigctx = NULL;
 looknew->need_search = lookold->need_search;
 looknew->done_as_is = lookold->done_as_is;
 looknew->dscp = lookold->dscp;
 looknew->eoferr = lookold->eoferr;

 if (lookold->ecs_addr != NULL) {
  size_t len = sizeof(isc_sockaddr_t);
  looknew->ecs_addr = isc_mem_allocate(mctx, len);
  if (looknew->ecs_addr == NULL)
   fatal("out of memory");
```

```
 memmove(looknew->ecs_addr, lookold->ecs_addr, len);
 }

 dns_name_copy(dns_fixedname_name(&lookold->fdomain),
       dns_fixedname_name(&looknew->fdomain), NULL);

 if (servers)
  clone_server_list(lookold->my_server_list,

  &looknew->my_server_list);
 return (looknew);
}

/*%
* Requeue a lookup for further processing, perhaps copying the server
* list.  The new lookup structure is returned to the caller, and is
* queued for processing.  If servers are not cloned in the requeue, they
* must be added before allowing the current event to complete, since the
* completion of the event may result in the next entry on the lookup
* queue getting run.
*/
dig_lookup_t *
requeue_lookup(dig_lookup_t *lookold, bool servers) {
 dig_lookup_t *looknew;

 debug("requeue_lookup()");

 lookup_counter++;
 if (lookup_counter > LOOKUP_LIMIT)
  fatal("too many lookups");

 looknew = clone_lookup(lookold, servers);
 INSIST(looknew != NULL);

 debug("before insertion, init@%p -> %p, new@%p -> %p",
       lookold, lookold->link.next, looknew, looknew->link.next);
 ISC_LIST_PREPEND(lookup_list, looknew, link);
 debug("after insertion, init -> %p, new = %p, new -> %p",

      lookold, looknew, looknew->link.next);
 return (looknew);
}


void
setup_text_key(void) {
 isc_result_t result;
 dns_name_t keyname;
```

```
 isc_buffer_t secretbuf;
 unsigned int secretsize;
 unsigned char *secretstore;

 debug("setup_text_key()");
 result = isc_buffer_allocate(mctx, &namebuf, MXNAME);
 check_result(result, "isc_buffer_allocate");
 dns_name_init(&keyname, NULL);
 check_result(result, "dns_name_init");
 isc_buffer_putstr(namebuf, keynametext);
 secretsize = (unsigned int) strlen(keysecret) * 3 / 4;
 secretstore = isc_mem_allocate(mctx, secretsize);
 if (secretstore == NULL)
  fatal("memory allocation failure in %s:%d",
        __FILE__, __LINE__);
 isc_buffer_init(&secretbuf, secretstore, secretsize);
 result = isc_base64_decodestring(keysecret, &secretbuf);
 if (result != ISC_R_SUCCESS)
  goto failure;

 secretsize = isc_buffer_usedlength(&secretbuf);

 if (hmacname == NULL) {
  result = DST_R_UNSUPPORTEDALG;
  goto failure;
 }

 result
 = dns_name_fromtext(&keyname, namebuf, dns_rootname, 0, namebuf);
 if (result != ISC_R_SUCCESS)
  goto failure;

 result = dns_tsigkey_create(&keyname, hmacname, secretstore,
        (int)secretsize, false, NULL, 0, 0,
        mctx, NULL, &tsigkey);
failure:
 if (result != ISC_R_SUCCESS)
  printf(";; Couldn't create key %s: %s\n",
         keynametext, isc_result_totext(result));
 else
  dst_key_setbits(tsigkey->key, digestbits);

 isc_mem_free(mctx, secretstore);
 dns_name_invalidate(&keyname);
 isc_buffer_free(&namebuf);
}

static isc_result_t
```

```
parse_uint_helper(uint32_t *uip, const char *value, uint32_t max,
    const char *desc, int base) {
 uint32_t n;
 isc_result_t result = isc_parse_uint32(&n, value, base);
 if (result == ISC_R_SUCCESS && n > max)
  result = ISC_R_RANGE;
 if (result != ISC_R_SUCCESS) {
  printf("invalid %s '%s': %s\n", desc,
         value, isc_result_totext(result));
  return (result);
 }
 *uip = n;
 return (ISC_R_SUCCESS);
}

isc_result_t
parse_uint(uint32_t
 *uip, const char *value, uint32_t max,
    const char *desc) {
 return (parse_uint_helper(uip, value, max, desc, 10));
}

isc_result_t
parse_xint(uint32_t *uip, const char *value, uint32_t max,
    const char *desc) {
 return (parse_uint_helper(uip, value, max, desc, 0));
}

static uint32_t
parse_bits(char *arg, const char *desc, uint32_t max) {
 isc_result_t result;
 uint32_t tmp;

 result = parse_uint(&tmp, arg, max, desc);
 if (result != ISC_R_SUCCESS)
  fatal("couldn't parse digest bits");
 tmp = (tmp + 7) & ~0x7U;
 return (tmp);
}

isc_result_t
parse_netprefix(isc_sockaddr_t **sap, const char *value) {
 isc_result_t result = ISC_R_SUCCESS;
 isc_sockaddr_t *sa = NULL;
 struct in_addr in4;
 struct in6_addr in6;
 uint32_t prefix_length = 0xffffffff;
 char *slash = NULL;
```

```
bool parsed = false;
bool prefix_parsed = false;
char buf[sizeof("xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:XXX.XXX.XXX.XXX/128")];

REQUIRE(sap !=
NULL && *sap == NULL);

if (strlcpy(buf, value, sizeof(buf)) >= sizeof(buf))
 fatal("invalid prefix '%s'\n", value);

sa = isc_mem_allocate(mctx, sizeof(*sa));
if (sa == NULL)
 fatal("out of memory");
memset(sa, 0, sizeof(*sa));

if (strcmp(buf, "0") == 0) {
 sa->type.sa.sa_family = AF_UNSPEC;
 prefix_length = 0;
 goto done;
}

slash = strchr(buf, '/');
if (slash != NULL) {
 *slash = '\0';
 result = isc_parse_uint32(&prefix_length, slash + 1, 10);
 if (result != ISC_R_SUCCESS) {
  fatal("invalid prefix length in '%s': %s\n",
        value, isc_result_totext(result));
 }
 prefix_parsed = true;
}

if (inet_pton(AF_INET6, buf, &in6) == 1) {
 parsed = true;
 isc_sockaddr_fromin6(sa, &in6, 0);
 if (prefix_length > 128)
  prefix_length = 128;
} else if (inet_pton(AF_INET, buf, &in4) == 1) {
 parsed = true;
 isc_sockaddr_fromin(sa, &in4, 0);
 if (prefix_length > 32)
  prefix_length = 32;
} else if (prefix_parsed) {
 int i;

 for
(i = 0; i < 3 && strlen(buf) < sizeof(buf) - 2; i++) {
  strlcat(buf, ".0", sizeof(buf));
```

```
   if (inet_pton(AF_INET, buf, &in4) == 1) {
    parsed = true;
    isc_sockaddr_fromin(sa, &in4, 0);
    break;
   }
  }

  if (prefix_length > 32)
   prefix_length = 32;
 }

 if (!parsed)
  fatal("invalid address '%s'", value);

done:
 sa->length = prefix_length;
 *sap = sa;

 return (ISC_R_SUCCESS);
}

/*
* Parse HMAC algorithm specification
*/
void
parse_hmac(const char *hmac) {
 char buf[20];
 size_t len;

 REQUIRE(hmac != NULL);

 len = strlen(hmac);
 if (len >= sizeof(buf))
  fatal("unknown key type '%.*s'", (int)len, hmac);
 strlcpy(buf, hmac, sizeof(buf));

 digestbits = 0;

#ifndef PK11_MD5_DISABLE
 if (strcasecmp(buf, "hmac-md5") == 0) {
  hmacname = DNS_TSIG_HMACMD5_NAME;
 } else if (strncasecmp(buf, "hmac-md5-", 9) == 0) {
  hmacname = DNS_TSIG_HMACMD5_NAME;
  digestbits = parse_bits(&buf[9], "digest-bits [0..128]", 128);
 }
 else
#endif
 if (strcasecmp(buf, "hmac-sha1") == 0) {
```

```
 hmacname = DNS_TSIG_HMACSHA1_NAME;
 digestbits = 0;
 } else if (strncasecmp(buf, "hmac-sha1-", 10) == 0) {
 hmacname = DNS_TSIG_HMACSHA1_NAME;
 digestbits = parse_bits(&buf[10], "digest-bits [0..160]", 160);
 } else if (strcasecmp(buf, "hmac-sha224") == 0) {
 hmacname = DNS_TSIG_HMACSHA224_NAME;
 } else if (strncasecmp(buf, "hmac-sha224-", 12) == 0) {
 hmacname = DNS_TSIG_HMACSHA224_NAME;
 digestbits = parse_bits(&buf[12], "digest-bits [0..224]", 224);
 } else if (strcasecmp(buf, "hmac-sha256") == 0) {
 hmacname = DNS_TSIG_HMACSHA256_NAME;
 } else if (strncasecmp(buf, "hmac-sha256-", 12) == 0) {
 hmacname = DNS_TSIG_HMACSHA256_NAME;
 digestbits = parse_bits(&buf[12], "digest-bits [0..256]", 256);
 } else if (strcasecmp(buf, "hmac-sha384") == 0) {
 hmacname = DNS_TSIG_HMACSHA384_NAME;
 } else if (strncasecmp(buf, "hmac-sha384-", 12) == 0) {
 hmacname = DNS_TSIG_HMACSHA384_NAME;
 digestbits = parse_bits(&buf[12],
"digest-bits [0..384]", 384);
 } else if (strcasecmp(buf, "hmac-sha512") == 0) {
 hmacname = DNS_TSIG_HMACSHA512_NAME;
 } else if (strncasecmp(buf, "hmac-sha512-", 12) == 0) {
 hmacname = DNS_TSIG_HMACSHA512_NAME;
 digestbits = parse_bits(&buf[12], "digest-bits [0..512]", 512);
 } else {
  fprintf(stderr, ";; Warning, ignoring "
   "invalid TSIG algorithm %s\n", buf);
 }
}

/*
* Get a key from a named.conf format keyfile
*/
static isc_result_t
read_confkey(void) {
 cfg_parser_t *pctx = NULL;
 cfg_obj_t *file = NULL;
 const cfg_obj_t *keyobj = NULL;
 const cfg_obj_t *secretobj = NULL;
 const cfg_obj_t *algorithmobj = NULL;
 const char *keyname;
 const char *secretstr;
 const char *algorithm;
 isc_result_t result;

 if (! isc_file_exists(keyfile))
```

```
 return (ISC_R_FILENOTFOUND);

result = cfg_parser_create(mctx, NULL, &pctx);
if (result != ISC_R_SUCCESS)
 goto cleanup;

result = cfg_parse_file(pctx, keyfile, &cfg_type_sessionkey,
   &file);
if
(result != ISC_R_SUCCESS)
 goto cleanup;

result = cfg_map_get(file, "key", &keyobj);
if (result != ISC_R_SUCCESS)
 goto cleanup;

(void) cfg_map_get(keyobj, "secret", &secretobj);
(void) cfg_map_get(keyobj, "algorithm", &algorithmobj);
if (secretobj == NULL || algorithmobj == NULL)
 fatal("key must have algorithm and secret");

keyname = cfg_obj_asstring(cfg_map_getname(keyobj));
secretstr = cfg_obj_asstring(secretobj);
algorithm = cfg_obj_asstring(algorithmobj);

strlcpy(keynametext, keyname, sizeof(keynametext));
strlcpy(keysecret, secretstr, sizeof(keysecret));
parse_hmac(algorithm);
setup_text_key();

cleanup:
if (pctx != NULL) {
 if (file != NULL)
  cfg_obj_destroy(pctx, &file);
 cfg_parser_destroy(&pctx);
}

return (result);
}

void
setup_file_key(void) {
isc_result_t result;
dst_key_t *dstkey = NULL;

debug("setup_file_key()");

/* Try reading the key from a K* pair */
```

```
 result = dst_key_fromnamedfile(keyfile,
 NULL,
         DST_TYPE_PRIVATE | DST_TYPE_KEY, mctx,
         &dstkey);

 /* If that didn't work, try reading it as a session.key keyfile */
 if (result != ISC_R_SUCCESS) {
  result = read_confkey();
  if (result == ISC_R_SUCCESS)
   return;
 }

 if (result != ISC_R_SUCCESS) {
  fprintf(stderr, "Couldn't read key from %s: %s\n",
   keyfile, isc_result_totext(result));
  goto failure;
 }

 switch (dst_key_alg(dstkey)) {
#ifndef PK11_MD5_DISABLE
 case DST_ALG_HMACMD5:
  hmacname = DNS_TSIG_HMACMD5_NAME;
  break;
#endif
 case DST_ALG_HMACSHA1:
  hmacname = DNS_TSIG_HMACSHA1_NAME;
  break;
 case DST_ALG_HMACSHA224:
  hmacname = DNS_TSIG_HMACSHA224_NAME;
  break;
 case DST_ALG_HMACSHA256:
  hmacname = DNS_TSIG_HMACSHA256_NAME;
  break;
 case DST_ALG_HMACSHA384:
  hmacname = DNS_TSIG_HMACSHA384_NAME;
  break;
 case DST_ALG_HMACSHA512:
  hmacname = DNS_TSIG_HMACSHA512_NAME;
  break;
 default:
  printf(";; Couldn't create key %s: bad algorithm\n",

       keynametext);
  goto failure;
 }
 result = dns_tsigkey_createfromkey(dst_key_name(dstkey), hmacname,
        dstkey, false, NULL, 0, 0,
        mctx, NULL, &tsigkey);
```

```
 if (result != ISC_R_SUCCESS) {
  printf(";; Couldn't create key %s: %s\n",
         keynametext, isc_result_totext(result));
  goto failure;
 }
failure:
 if (dstkey != NULL)
  dst_key_free(&dstkey);
}

static dig_searchlist_t *
make_searchlist_entry(char *domain) {
 dig_searchlist_t *search;
 search = isc_mem_allocate(mctx, sizeof(*search));
 if (search == NULL)
  fatal("memory allocation failure in %s:%d",
        __FILE__, __LINE__);
 strlcpy(search->origin, domain, MXNAME);
 search->origin[MXNAME-1] = 0;
 ISC_LINK_INIT(search, link);
 return (search);
}

static void
clear_searchlist(void) {
 dig_searchlist_t *search;
 while ((search = ISC_LIST_HEAD(search_list)) != NULL) {
  ISC_LIST_UNLINK(search_list, search, link);
  isc_mem_free(mctx, search);
 }
}

static
 void
create_search_list(lwres_conf_t *confdata) {
 int i;
 dig_searchlist_t *search;

 debug("create_search_list()");
 clear_searchlist();

 for (i = 0; i < confdata->searchnxt; i++) {
  search = make_searchlist_entry(confdata->search[i]);
  ISC_LIST_APPEND(search_list, search, link);
 }
}

/*%
```

```
* Setup the system as a whole, reading key information and resolv.conf
* settings.
*/
void
setup_system(bool ipv4only, bool ipv6only) {
 dig_searchlist_t *domain = NULL;
 lwres_result_t lwresult;
 unsigned int lwresflags;
 isc_result_t result;

 debug("setup_system()");

 if (ipv4only) {
  if (have_ipv4) {
   isc_net_disableipv6();
   have_ipv6 = false;
  } else {
   fatal("can't find IPv4 networking");
  }
 }

 if (ipv6only) {
  if (have_ipv6) {
   isc_net_disableipv4();
   have_ipv4 = false;
  } else {
   fatal("can't find IPv6 networking");
  }
 }

 lwresflags = LWRES_CONTEXT_SERVERMODE;
 if (have_ipv4)
  lwresflags |= LWRES_CONTEXT_USEIPV4;
 if
 (have_ipv6)
  lwresflags |= LWRES_CONTEXT_USEIPV6;

 lwresult = lwres_context_create(&lwctx, mctx, mem_alloc, mem_free,
     lwresflags);
 if (lwresult != LWRES_R_SUCCESS)
  fatal("lwres_context_create failed");

 lwresult = lwres_conf_parse(lwctx, RESOLV_CONF);
 if (lwresult != LWRES_R_SUCCESS && lwresult != LWRES_R_NOTFOUND)
  fatal("parse of %s failed", RESOLV_CONF);

 lwconf = lwres_conf_get(lwctx);
```

```
/* Make the search list */
if (lwconf->searchnxt > 0)
 create_search_list(lwconf);
else { /* No search list. Use the domain name if any */
 if (lwconf->domainname != NULL) {
  domain = make_searchlist_entry(lwconf->domainname);
  ISC_LIST_APPEND(search_list, domain, link);
  domain  = NULL;
 }
}

if (lwconf->resdebug) {
 verbose = true;
 debug("verbose is on");
}
if (ndots == -1) {
 ndots = lwconf->ndots;
 debug("ndots is %d.", ndots);
}
if (lwconf->attempts) {
 tries = lwconf->attempts + 1;
 if (tries < 2)
  tries = 2;
 debug("tries
is %d.", tries);
}
if (lwconf->timeout) {
 timeout = lwconf->timeout;
 debug("timeout is %d.", timeout);
}

/* If user doesn't specify server use nameservers from resolv.conf. */
if (ISC_LIST_EMPTY(server_list))
 copy_server_list(lwconf, &server_list);

/* If we don't find a nameserver fall back to localhost */
if (ISC_LIST_EMPTY(server_list)) {
 if (have_ipv4) {
  lwresult = add_nameserver(lwconf, "127.0.0.1", AF_INET);
  if (lwresult != ISC_R_SUCCESS)
   fatal("add_nameserver failed");
 }
 if (have_ipv6) {
  lwresult = add_nameserver(lwconf, "::1", AF_INET6);
  if (lwresult != ISC_R_SUCCESS)
   fatal("add_nameserver failed");
 }
```

```
  copy_server_list(lwconf, &server_list);
 }

#ifdef HAVE_SETLOCALE
 /* Set locale */
 (void)setlocale(LC_ALL, "");
#endif

#ifdef WITH_IDN_SUPPORT
 idn_initialize();
#endif

#ifdef WITH_IDN_OUT_SUPPORT
 /* Set domain name -> text post-conversion filter. */
 result = dns_name_settotextfilter(output_filter);
 check_result(result,
 "dns_name_settotextfilter");
#endif

 if (keyfile[0] != 0)
  setup_file_key();
 else if (keysecret[0] != 0)
  setup_text_key();
#ifdef DIG_SIGCHASE
 /* Setup the list of messages for +sigchase */
 ISC_LIST_INIT(chase_message_list);
 ISC_LIST_INIT(chase_message_list2);
 dns_name_init(&chase_name, NULL);
#if DIG_SIGCHASE_TD
 dns_name_init(&chase_current_name, NULL);
 dns_name_init(&chase_authority_name, NULL);
#endif
#if DIG_SIGCHASE_BU
 dns_name_init(&chase_signame, NULL);
#endif

#endif
 result = isc_entropy_getdata(entp, cookie_secret,
        sizeof(cookie_secret), NULL, 0);
 if (result != ISC_R_SUCCESS)
  fatal("unable to generate cookie secret");
}

/*%
* Override the search list derived from resolv.conf by 'domain'.
*/
void
set_search_domain(char *domain) {
```

```
 dig_searchlist_t *search;

 clear_searchlist();
 search = make_searchlist_entry(domain);
 ISC_LIST_APPEND(search_list, search, link);
}

/*%
 * Setup the ISC and DNS libraries for use by the system.
*/
void
setup_libs(void) {
 isc_result_t result;
 isc_logconfig_t *logconfig = NULL;

 debug("setup_libs()");

#ifdef PKCS11CRYPTO
 pk11_result_register();
#endif
 dns_result_register();

 result = isc_net_probeipv4();
 if (result == ISC_R_SUCCESS)
  have_ipv4 = true;

 result = isc_net_probeipv6();
 if (result == ISC_R_SUCCESS)
  have_ipv6 = true;
 if (!have_ipv6 && !have_ipv4)
  fatal("can't find either v4 or v6 networking");

 result = isc_mem_create(0, 0, &mctx);
 check_result(result, "isc_mem_create");
 isc_mem_setname(mctx, "dig", NULL);

 result = isc_log_create(mctx, &lctx, &logconfig);
 check_result(result, "isc_log_create");

 isc_log_setcontext(lctx);
 dns_log_init(lctx);
 dns_log_setcontext(lctx);

 result = isc_log_usechannel(logconfig, "default_debug", NULL, NULL);
 check_result(result, "isc_log_usechannel");

 isc_log_setdebuglevel(lctx, 0);
```

```
 result = isc_taskmgr_create(mctx,
 1, 0, &taskmgr);
 check_result(result, "isc_taskmgr_create");

 result = isc_task_create(taskmgr, 0, &global_task);
 check_result(result, "isc_task_create");
 isc_task_setname(global_task, "dig", NULL);

 result = isc_timermgr_create(mctx, &timermgr);
 check_result(result, "isc_timermgr_create");

 result = isc_socketmgr_create(mctx, &socketmgr);
 check_result(result, "isc_socketmgr_create");

 result = isc_entropy_create(mctx, &entp);
 check_result(result, "isc_entropy_create");

 result = dst_lib_init(mctx, entp, 0);
 check_result(result, "dst_lib_init");
 is_dst_up = true;

 result = isc_mempool_create(mctx, COMMSIZE, &commctx);
 check_result(result, "isc_mempool_create");
 isc_mempool_setname(commctx, "COMMPOOL");
 /*
  * 6 and 2 set as reasonable parameters for 3 or 4 nameserver
  * systems.
  */
 isc_mempool_setfreemax(commctx, 6);
 isc_mempool_setfillcount(commctx, 2);

 result = isc_mutex_init(&lookup_lock);
 check_result(result, "isc_mutex_init");
}

typedef
 struct dig_ednsoptname {
 uint32_t code;
 const char  *name;
} dig_ednsoptname_t;

dig_ednsoptname_t optnames[] = {
 { 3, "NSID" },  /* RFC 5001 */
 { 5, "DAU" },  /* RFC 6975 */
 { 6, "DHU" },  /* RFC 6975 */
 { 7, "N3U" },  /* RFC 6975 */
 { 8, "ECS" },  /* RFC 7871 */
 { 9, "EXPIRE" }, /* RFC 7314 */
```

```
 { 10, "COOKIE" }, /* RFC 7873 */
 { 11, "KEEPALIVE" }, /* RFC 7828 */
 { 12, "PADDING" }, /* RFC 7830 */
 { 12, "PAD" },  /* shorthand */
 { 13, "CHAIN" }, /* RFC 7901 */
 { 14, "KEY-TAG" }, /* RFC 8145 */
 { 16, "CLIENT-TAG" }, /* draft-bellis-dnsop-edns-tags */
 { 17, "SERVER-TAG" }, /* draft-bellis-dnsop-edns-tags */
 { 26946, "DEVICEID" }, /* Brian Hartvigsen */
};

#define N_EDNS_OPTNAMES  (sizeof(optnames) / sizeof(optnames[0]))

void
save_opt(dig_lookup_t *lookup, char *code, char *value) {
 isc_result_t result;
 uint32_t num = 0;
 isc_buffer_t b;
 bool found = false;
 unsigned int i;

 if (lookup->ednsoptscnt >= EDNSOPT_OPTIONS)
  fatal("too
 many ednsopts");

 for (i = 0; i < N_EDNS_OPTNAMES; i++) {
  if (strcasecmp(code, optnames[i].name) == 0) {
   num = optnames[i].code;
   found = true;
   break;
  }
 }

 if (!found) {
  result = parse_uint(&num, code, 65535, "ednsopt");
  if (result != ISC_R_SUCCESS)
   fatal("bad edns code point: %s", code);
 }

 if (lookup->ednsopts == NULL) {
  cloneopts(lookup, NULL);
 }

 if (lookup->ednsopts[lookup->ednsoptscnt].value != NULL)
  isc_mem_free(mctx, lookup->ednsopts[lookup->ednsoptscnt].value);

 lookup->ednsopts[lookup->ednsoptscnt].code = num;
 lookup->ednsopts[lookup->ednsoptscnt].length = 0;
```

```
 lookup->ednsopts[lookup->ednsoptscnt].value = NULL;

 if (value != NULL) {
  char *buf;
  buf = isc_mem_allocate(mctx, strlen(value)/2 + 1);
  if (buf == NULL)
   fatal("out of memory");
  isc_buffer_init(&b, buf, (unsigned int) strlen(value)/2 + 1);
  result = isc_hex_decodestring(value, &b);
  check_result(result, "isc_hex_decodestring");
  lookup->ednsopts[lookup->ednsoptscnt].value
 =
       isc_buffer_base(&b);
  lookup->ednsopts[lookup->ednsoptscnt].length =
       isc_buffer_usedlength(&b);
 }

 lookup->ednsoptscnt++;
}

/*%
* Add EDNS0 option record to a message.  Currently, the only supported
* options are UDP buffer size, the DO bit, and EDNS options
* (e.g., NSID, COOKIE, client-subnet)
*/
static void
add_opt(dns_message_t *msg, uint16_t udpsize, uint16_t edns,
 unsigned int flags, dns_ednsopt_t *opts, size_t count)
{
 dns_rdataset_t *rdataset = NULL;
 isc_result_t result;

 debug("add_opt()");
 result = dns_message_buildopt(msg, &rdataset, edns, udpsize, flags,
          opts, count);
 check_result(result, "dns_message_buildopt");
 result = dns_message_setopt(msg, rdataset);
 check_result(result, "dns_message_setopt");
}

/*%
* Add a question section to a message, asking for the specified name,
* type, and class.
*/
static void
add_question(dns_message_t *message,
 dns_name_t *name,
      dns_rdataclass_t rdclass, dns_rdatatype_t rdtype)
```

```
{
 dns_rdataset_t *rdataset;
 isc_result_t result;

 debug("add_question()");
 rdataset = NULL;
 result = dns_message_gettemprdataset(message, &rdataset);
 check_result(result, "dns_message_gettemprdataset()");
 dns_rdataset_makequestion(rdataset, rdclass, rdtype);
 ISC_LIST_APPEND(name->list, rdataset, link);
}

/*%
* Check if we're done with all the queued lookups, which is true iff
* all sockets, sends, and recvs are accounted for (counters == 0),
* and the lookup list is empty.
* If we are done, pass control back out to dighost_shutdown() (which is
* part of dig.c, host.c, or nslookup.c) to either shutdown the system as
* a whole or reseed the lookup list.
*/
static void
check_if_done(void) {
 debug("check_if_done()");
 debug("list %s", ISC_LIST_EMPTY(lookup_list) ? "empty" : "full");
 if (ISC_LIST_EMPTY(lookup_list) && current_lookup == NULL &&
     sendcount == 0) {
  INSIST(sockcount
 == 0);
  INSIST(recvcount == 0);
  debug("shutting down");
  dighost_shutdown();
 }
}

/*%
* Clear out a query when we're done with it.  WARNING: This routine
* WILL invalidate the query pointer.
*/
static void
clear_query(dig_query_t *query) {
 dig_lookup_t *lookup;

 REQUIRE(query != NULL);

 debug("clear_query(%p)", query);

 if (query->timer != NULL)
  isc_timer_detach(&query->timer);
```

```
 lookup = query->lookup;

 if (lookup->current_query == query)
  lookup->current_query = NULL;

 if (ISC_LINK_LINKED(query, link))
  ISC_LIST_UNLINK(lookup->q, query, link);
 if (ISC_LINK_LINKED(query, clink))
  ISC_LIST_UNLINK(lookup->connecting, query, clink);
 if (ISC_LINK_LINKED(&query->recvbuf, link))
  ISC_LIST_DEQUEUE(query->recvlist, &query->recvbuf,
     link);
 if (ISC_LINK_LINKED(&query->lengthbuf, link))
  ISC_LIST_DEQUEUE(query->lengthlist, &query->lengthbuf,
     link);
 INSIST(query->recvspace != NULL);

 if (query->sock != NULL) {
  isc_socket_detach(&query->sock);
  sockcount--;
  debug("sockcount=%d",
 sockcount);
 }
 isc_mempool_put(commctx, query->recvspace);
 isc_buffer_invalidate(&query->recvbuf);
 isc_buffer_invalidate(&query->lengthbuf);
 if (query->waiting_senddone)
  query->pending_free = true;
 else
  isc_mem_free(mctx, query);
}

/*%
* Try and clear out a lookup if we're done with it.  Return true if
* the lookup was successfully cleared.  If true is returned, the
* lookup pointer has been invalidated.
*/
static bool
try_clear_lookup(dig_lookup_t *lookup) {
 dig_query_t *q;

 REQUIRE(lookup != NULL);

 debug("try_clear_lookup(%p)", lookup);

 if (ISC_LIST_HEAD(lookup->q) != NULL ||
     ISC_LIST_HEAD(lookup->connecting) != NULL)
 {
```

```
 if (debugging) {
  q = ISC_LIST_HEAD(lookup->q);
  while (q != NULL) {
   debug("query to %s still pending", q->servname);
   q = ISC_LIST_NEXT(q, link);
  }

  q = ISC_LIST_HEAD(lookup->connecting);
  while (q != NULL) {
   debug("query
to %s still connecting",
         q->servname);
   q = ISC_LIST_NEXT(q, clink);
  }
 }
 return (false);
}

/*
 * At this point, we know there are no queries on the lookup,
 * so can make it go away also.
 */
destroy_lookup(lookup);
return (true);
}

void
destroy_lookup(dig_lookup_t *lookup) {
 dig_server_t *s;
 void *ptr;

 debug("destroy");
 s = ISC_LIST_HEAD(lookup->my_server_list);
 while (s != NULL) {
  debug("freeing server %p belonging to %p", s, lookup);
  ptr = s;
  s = ISC_LIST_NEXT(s, link);
  ISC_LIST_DEQUEUE(lookup->my_server_list,
     (dig_server_t *)ptr, link);
  isc_mem_free(mctx, ptr);
 }
 if (lookup->sendmsg != NULL)
  dns_message_destroy(&lookup->sendmsg);
 if (lookup->querysig != NULL) {
  debug("freeing buffer %p", lookup->querysig);
  isc_buffer_free(&lookup->querysig);
 }
 if (lookup->sendspace != NULL)
```

```
 isc_mempool_put(commctx, lookup->sendspace);

 if (lookup->tsigctx != NULL)
  dst_context_destroy(&lookup->tsigctx);

 if
 (lookup->ecs_addr != NULL)
  isc_mem_free(mctx, lookup->ecs_addr);

 if (lookup->ednsopts != NULL) {
  size_t i;
  for (i = 0; i < EDNSOPT_OPTIONS; i++) {
   if (lookup->ednsopts[i].value != NULL)
    isc_mem_free(mctx, lookup->ednsopts[i].value);
  }
  isc_mem_free(mctx, lookup->ednsopts);
 }

 isc_mem_free(mctx, lookup);
}

/*%
* If we can, start the next lookup in the queue running.
* This assumes that the lookup on the head of the queue hasn't been
* started yet.  It also removes the lookup from the head of the queue,
* setting the current_lookup pointer pointing to it.
*/
void
start_lookup(void) {
 debug("start_lookup()");
 if (cancel_now)
  return;

 /*
  * If there's a current lookup running, we really shouldn't get
  * here.
  */
 INSIST(current_lookup == NULL);

 current_lookup = ISC_LIST_HEAD(lookup_list);
 /*
  * Put the current lookup somewhere so cancel_all can find it
  */
 if (current_lookup != NULL)
 {
  ISC_LIST_DEQUEUE(lookup_list, current_lookup, link);
#if DIG_SIGCHASE_TD
  if (current_lookup->do_topdown &&
```

```
    !current_lookup->rdtype_sigchaseset) {
  dst_key_t *dstkey = NULL;
  isc_buffer_t *b = NULL;
  isc_region_t r;
  isc_result_t result;
  dns_name_t query_name;
  dns_name_t *key_name;
  int i;

  result = get_trusted_key();
  if (result != ISC_R_SUCCESS) {
   printf("\n;; No trusted key, "
          "+sigchase option is disabled\n");
   current_lookup->sigchase = false;
   goto novalidation;
  }
  dns_name_init(&query_name, NULL);
  nameFromString(current_lookup->textname, &query_name);

  for (i = 0; i < tk_list.nb_tk; i++) {
   key_name = dst_key_name(tk_list.key[i]);

   if (dns_name_issubdomain(&query_name,
       key_name) == true)
    dstkey = tk_list.key[i];
   /*
    * Verify temp is really the lowest
    * WARNING
    */
  }
  if (dstkey == NULL) {
   printf("\n;; The queried zone: ");
   dns_name_print(&query_name,
stdout);
   printf(" isn't a subdomain of any Trusted Keys"
          ": +sigchase option is disable\n");
   current_lookup->sigchase = false;
   free_name(&query_name);
   goto novalidation;
  }
  free_name(&query_name);

  current_lookup->rdtype_sigchase
   = current_lookup->rdtype;
  current_lookup->rdtype_sigchaseset
   = current_lookup->rdtypeset;
  current_lookup->rdtype = dns_rdatatype_ns;
```

```
  current_lookup->qrdtype_sigchase
   = current_lookup->qrdtype;
  current_lookup->qrdtype = dns_rdatatype_ns;

  current_lookup->rdclass_sigchase
   = current_lookup->rdclass;
  current_lookup->rdclass_sigchaseset
   = current_lookup->rdclassset;
  current_lookup->rdclass = dns_rdataclass_in;

  strlcpy(current_lookup->textnamesigchase,
   current_lookup->textname, MXNAME);

  current_lookup->trace_root_sigchase = true;

  result = isc_buffer_allocate(mctx, &b, BUFSIZE);
  check_result(result, "isc_buffer_allocate");
  result
 = dns_name_totext(dst_key_name(dstkey),
      false, b);
  check_result(result, "dns_name_totext");
  isc_buffer_usedregion(b, &r);
  r.base[r.length] = '\0';
  strlcpy(current_lookup->textname, (char*)r.base,
   MXNAME);
  isc_buffer_free(&b);

  nameFromString(current_lookup->textnamesigchase,
         &chase_name);

  dns_name_init(&chase_authority_name, NULL);
 }
novalidation:
#endif
 if (setup_lookup(current_lookup))
  do_lookup(current_lookup);
 else if (next_origin(current_lookup))
  check_next_lookup(current_lookup);
 } else {
 check_if_done();
 }
}

/*%
* If we can, clear the current lookup and start the next one running.
* This calls try_clear_lookup, so may invalidate the lookup pointer.
*/
static void
```

```
check_next_lookup(dig_lookup_t *lookup) {

 INSIST(!free_now);

 debug("check_next_lookup(%p)", lookup);

 if (ISC_LIST_HEAD(lookup->q) != NULL) {
  debug("still have a worker");
  return;
 }
 if (try_clear_lookup(lookup))
 {
  current_lookup = NULL;
  start_lookup();
 }
}

/*%
* Create and queue a new lookup as a followup to the current lookup,
* based on the supplied message and section.  This is used in trace and
* name server search modes to start a new lookup using servers from
* NS records in a reply. Returns the number of followup lookups made.
*/
static int
followup_lookup(dns_message_t *msg, dig_query_t *query, dns_section_t section)
{
 dig_lookup_t *lookup = NULL;
 dig_server_t *srv = NULL;
 dns_rdataset_t *rdataset = NULL;
 dns_rdata_t rdata = DNS_RDATA_INIT;
 dns_name_t *name = NULL;
 isc_result_t result;
 bool success = false;
 int numLookups = 0;
 int num;
 isc_result_t lresult, addresses_result;
 char bad_namestr[DNS_NAME_FORMATSIZE];
 dns_name_t *domain;
 bool horizontal = false, bad = false;

 INSIST(!free_now);

 debug("following up %s", query->lookup->textname);

 addresses_result = ISC_R_SUCCESS;
 bad_namestr[0] = '\0';
 for
```

```
(result = dns_message_firstname(msg, section);
     result == ISC_R_SUCCESS;
     result = dns_message_nextname(msg, section)) {
 name = NULL;
 dns_message_currentname(msg, section, &name);

 if (section == DNS_SECTION_AUTHORITY) {
  rdataset = NULL;
  result = dns_message_findtype(name, dns_rdatatype_soa,
           0, &rdataset);
  if (result == ISC_R_SUCCESS)
   return (0);
 }
 rdataset = NULL;
 result = dns_message_findtype(name, dns_rdatatype_ns, 0,
          &rdataset);
 if (result != ISC_R_SUCCESS)
  continue;

 debug("found NS set");

 if (query->lookup->trace && !query->lookup->trace_root) {
  dns_namereln_t namereln;
  unsigned int nlabels;
  int order;

  domain = dns_fixedname_name(&query->lookup->fdomain);
  namereln = dns_name_fullcompare(name, domain,
      &order, &nlabels);
  if (namereln == dns_namereln_equal) {
   if (!horizontal)
    printf(";; BAD (HORIZONTAL) REFERRAL\n");
   horizontal = true;
  } else
if (namereln != dns_namereln_subdomain) {
   if (!bad)
    printf(";; BAD REFERRAL\n");
   bad = true;
   continue;
  }
 }

 for (result = dns_rdataset_first(rdataset);
      result == ISC_R_SUCCESS;
      result = dns_rdataset_next(rdataset)) {
  char namestr[DNS_NAME_FORMATSIZE];
  dns_rdata_ns_t ns;
```

```
if (query->lookup->trace_root &&
    query->lookup->nsfound >= MXSERV)
 break;

dns_rdataset_current(rdataset, &rdata);

query->lookup->nsfound++;
result = dns_rdata_tostruct(&rdata, &ns, NULL);
check_result(result, "dns_rdata_tostruct");
dns_name_format(&ns.name, namestr, sizeof(namestr));
dns_rdata_freestruct(&ns);

/* Initialize lookup if we've not yet */
debug("found NS %s", namestr);
if (!success) {
 success = true;
 lookup_counter++;
 lookup = requeue_lookup(query->lookup,
    false);
 cancel_lookup(query->lookup);
 lookup->doing_xfr = false;
 if (!lookup->trace_root &&

 section == DNS_SECTION_ANSWER)
  lookup->trace = false;
 else
  lookup->trace = query->lookup->trace;
 lookup->ns_search_only =
  query->lookup->ns_search_only;
 lookup->trace_root = false;
 if (lookup->ns_search_only)
  lookup->recurse = false;
 domain = dns_fixedname_name(&lookup->fdomain);
 dns_name_copy(name, domain, NULL);
}
debug("adding server %s", namestr);
num = getaddresses(lookup, namestr, &lresult);
if (lresult != ISC_R_SUCCESS) {
 printf("couldn't get address for '%s': %s\n",
        namestr, isc_result_totext(lresult));
 if (addresses_result == ISC_R_SUCCESS) {
  addresses_result = lresult;
  strlcpy(bad_namestr, namestr,
   sizeof(bad_namestr));
 }
}
numLookups += num;
dns_rdata_reset(&rdata);
```

```
 }
}
if (numLookups == 0 && addresses_result != ISC_R_SUCCESS) {
 fatal("couldn't get address for '%s': %s",
       bad_namestr, isc_result_totext(result));
}

if (lookup
== NULL &&
    section == DNS_SECTION_ANSWER &&
    (query->lookup->trace || query->lookup->ns_search_only))
 return (followup_lookup(msg, query, DNS_SECTION_AUTHORITY));

/*
 * Randomize the order the nameserver will be tried.
 */
if (numLookups > 1) {
 uint32_t i, j;
 dig_serverlist_t my_server_list;
 dig_server_t *next;

 ISC_LIST_INIT(my_server_list);

 i = numLookups;
 for (srv = ISC_LIST_HEAD(lookup->my_server_list);
      srv != NULL;
      srv = ISC_LIST_HEAD(lookup->my_server_list)) {
  INSIST(i > 0);
  isc_random_get(&j);
  j %= i;
  next = ISC_LIST_NEXT(srv, link);
  while (j-- > 0 && next != NULL) {
   srv = next;
   next = ISC_LIST_NEXT(srv, link);
  }
  ISC_LIST_DEQUEUE(lookup->my_server_list, srv, link);
  ISC_LIST_APPEND(my_server_list, srv, link);
  i--;
 }
 ISC_LIST_APPENDLIST(lookup->my_server_list,
       my_server_list, link);
}

 return (numLookups);
}

/*%
* Create and queue a new lookup using
```

```
 the next origin from the search
* list, read in setup_system().
*
* Return true iff there was another searchlist entry.
*/
static bool
next_origin(dig_lookup_t *oldlookup) {
 dig_lookup_t *newlookup;
 dig_searchlist_t *search;
 dns_fixedname_t fixed;
 dns_name_t *name;
 isc_result_t result;

 INSIST(!free_now);

 debug("next_origin()");
 debug("following up %s", oldlookup->textname);

 if (!usesearch)
  /*
   * We're not using a search list, so don't even think
   * about finding the next entry.
   */
  return (false);

 /*
  * Check for a absolute name or ndots being met.
  */
 name = dns_fixedname_initname(&fixed);
 result = dns_name_fromstring2(name, oldlookup->textname, NULL,
         0, NULL);
 if (result == ISC_R_SUCCESS &&
     (dns_name_isabsolute(name) ||
      (int)dns_name_countlabels(name) > ndots))
  return (false);

 if (oldlookup->origin == NULL && !oldlookup->need_search)
  /*
   * Then we just did rootorg; there's nothing
 left.
   */
  return (false);
 if (oldlookup->origin == NULL && oldlookup->need_search) {
  newlookup = requeue_lookup(oldlookup, true);
  newlookup->origin = ISC_LIST_HEAD(search_list);
  newlookup->need_search = false;
 } else {
  search = ISC_LIST_NEXT(oldlookup->origin, link);
```

```
 if (search == NULL && oldlookup->done_as_is)
  return (false);
 newlookup = requeue_lookup(oldlookup, true);
 newlookup->origin = search;
 }
 cancel_lookup(oldlookup);
 return (true);
}

/*%
* Insert an SOA record into the sendmessage in a lookup.  Used for
* creating IXFR queries.
*/
static void
insert_soa(dig_lookup_t *lookup) {
 isc_result_t result;
 dns_rdata_soa_t soa;
 dns_rdata_t *rdata = NULL;
 dns_rdatalist_t *rdatalist = NULL;
 dns_rdataset_t *rdataset = NULL;
 dns_name_t *soaname = NULL;

 debug("insert_soa()");
 soa.mctx = mctx;
 soa.serial = lookup->ixfr_serial;
 soa.refresh = 0;
 soa.retry = 0;
 soa.expire = 0;
 soa.minimum = 0;
 soa.common.rdclass =
 lookup->rdclass;
 soa.common.rdtype = dns_rdatatype_soa;

 dns_name_init(&soa.origin, NULL);
 dns_name_init(&soa.contact, NULL);

 dns_name_clone(dns_rootname, &soa.origin);
 dns_name_clone(dns_rootname, &soa.contact);

 isc_buffer_init(&lookup->rdatabuf, lookup->rdatastore,
  sizeof(lookup->rdatastore));

 result = dns_message_gettemprdata(lookup->sendmsg, &rdata);
 check_result(result, "dns_message_gettemprdata");

 result = dns_rdata_fromstruct(rdata, lookup->rdclass,
        dns_rdatatype_soa, &soa,
        &lookup->rdatabuf);
```

```
 check_result(result, "isc_rdata_fromstruct");

 result = dns_message_gettemprdatalist(lookup->sendmsg, &rdatalist);
 check_result(result, "dns_message_gettemprdatalist");

 result = dns_message_gettemprdataset(lookup->sendmsg, &rdataset);
 check_result(result, "dns_message_gettemprdataset");

 dns_rdatalist_init(rdatalist);
 rdatalist->type = dns_rdatatype_soa;
 rdatalist->rdclass = lookup->rdclass;
 ISC_LIST_APPEND(rdatalist->rdata,
 rdata, link);

 dns_rdatalist_tordataset(rdatalist, rdataset);

 result = dns_message_gettempname(lookup->sendmsg, &soaname);
 check_result(result, "dns_message_gettempname");
 dns_name_init(soaname, NULL);
 dns_name_clone(lookup->name, soaname);
 ISC_LIST_INIT(soaname->list);
 ISC_LIST_APPEND(soaname->list, rdataset, link);
 dns_message_addname(lookup->sendmsg, soaname, DNS_SECTION_AUTHORITY);
}

static void
compute_cookie(unsigned char *clientcookie, size_t len) {
 /* XXXMPA need to fix, should be per server. */
 INSIST(len >= 8U);
 memmove(clientcookie, cookie_secret, 8);
}

/*%
* Setup the supplied lookup structure, making it ready to start sending
* queries to servers.  Create and initialize the message to be sent as
* well as the query structures and buffer space for the replies.  If the
* server list is empty, clone it from the system default list.
*/
bool
setup_lookup(dig_lookup_t *lookup) {
 isc_result_t result;
 uint32_t id;
 unsigned
 int len;
 dig_server_t *serv;
 dig_query_t *query;
 isc_buffer_t b;
 dns_compress_t cctx;
```

```
 char store[MXNAME];
 char ecsbuf[20];
 char cookiebuf[256];
 char *origin = NULL;
 char *textname = NULL;
#ifdef WITH_IDN_SUPPORT
 char idn_origin[MXNAME], idn_textname[MXNAME];
#endif

#ifdef WITH_IDN_OUT_SUPPORT
 result = dns_name_settotextfilter(lookup->idnout ?
      output_filter : NULL);
 check_result(result, "dns_name_settotextfilter");
#endif

 REQUIRE(lookup != NULL);
 INSIST(!free_now);

 debug("setup_lookup(%p)", lookup);

 result = dns_message_create(mctx, DNS_MESSAGE_INTENTRENDER,
       &lookup->sendmsg);
 check_result(result, "dns_message_create");

 if (lookup->new_search) {
  debug("resetting lookup counter.");
  lookup_counter = 0;
 }

 if (ISC_LIST_EMPTY(lookup->my_server_list)) {
  debug("cloning server list");
  clone_server_list(server_list, &lookup->my_server_list);
 }
 result = dns_message_gettempname(lookup->sendmsg, &lookup->name);
 check_result(result,
 "dns_message_gettempname");
 dns_name_init(lookup->name, NULL);

 isc_buffer_init(&lookup->namebuf, lookup->name_space,
   sizeof(lookup->name_space));
 isc_buffer_init(&lookup->onamebuf, lookup->oname_space,
   sizeof(lookup->oname_space));

 /*
  * We cannot convert `textname' and `origin' separately.
  * `textname' doesn't contain TLD, but local mapping needs
  * TLD.
  */
```

```
 textname = lookup->textname;
#ifdef WITH_IDN_SUPPORT
 if (lookup->idnin) {
  result = idn_locale_to_ace(textname, idn_textname, sizeof(idn_textname));
  check_result(result, "convert textname to IDN encoding");
  debug("idn_textname: %s", idn_textname);
  textname = idn_textname;
 }
#endif

 /*
  * If the name has too many dots, force the origin to be NULL
  * (which produces an absolute lookup).  Otherwise, take the origin
  * we have if there's one in the struct already.  If it's NULL,
  * take the first entry in the searchlist iff either usesearch
  * is
 TRUE or we got a domain line in the resolv.conf file.
  */
 if (lookup->new_search) {
  if ((count_dots(textname) >= ndots) || !usesearch)
  {
   lookup->origin = NULL; /* Force abs lookup */
   lookup->done_as_is = true;
   lookup->need_search = usesearch;
  } else if (lookup->origin == NULL && usesearch) {
   lookup->origin = ISC_LIST_HEAD(search_list);
   lookup->need_search = false;
  }
 }

 if (lookup->origin != NULL) {
  debug("trying origin %s", lookup->origin->origin);
  result = dns_message_gettempname(lookup->sendmsg,
      &lookup->oname);
  check_result(result, "dns_message_gettempname");
  dns_name_init(lookup->oname, NULL);
  /* XXX Helper funct to conv char* to name? */
  origin = lookup->origin->origin;
#ifdef WITH_IDN_SUPPORT
  if (lookup->idnin) {
   result = idn_locale_to_ace(origin, idn_origin, sizeof(idn_origin));
   check_result(result, "convert origin to IDN encoding");
   debug("trying idn origin %s", idn_origin);
   origin = idn_origin;
  }
#endif
  len
```

```
= (unsigned int) strlen(origin);
 isc_buffer_init(&b, origin, len);
 isc_buffer_add(&b, len);
 result = dns_name_fromtext(lookup->oname, &b, dns_rootname,
      0, &lookup->onamebuf);
 if (result != ISC_R_SUCCESS) {
  dns_message_puttempname(lookup->sendmsg,
    &lookup->name);
  dns_message_puttempname(lookup->sendmsg,
    &lookup->oname);
  fatal("'%s' is not in legal name syntax (%s)",
        origin,
        isc_result_totext(result));
 }
 if (lookup->trace && lookup->trace_root) {
  dns_name_clone(dns_rootname, lookup->name);
 } else {
  dns_fixedname_t fixed;
  dns_name_t *name;

  name = dns_fixedname_initname(&fixed);
  len = (unsigned int) strlen(textname);
  isc_buffer_init(&b, textname, len);
  isc_buffer_add(&b, len);
  result = dns_name_fromtext(name, &b, NULL, 0, NULL);
  if (result == ISC_R_SUCCESS &&
     !dns_name_isabsolute(name))
   result = dns_name_concatenate(name,
           lookup->oname,

     lookup->name,
           &lookup->namebuf);
  else if (result == ISC_R_SUCCESS)
   result = dns_name_copy(name, lookup->name,
           &lookup->namebuf);
  if (result != ISC_R_SUCCESS) {
   dns_message_puttempname(lookup->sendmsg,
     &lookup->name);
   dns_message_puttempname(lookup->sendmsg,
     &lookup->oname);
   if (result == DNS_R_NAMETOOLONG)
    return (false);
   fatal("'%s' is not in legal name syntax (%s)",
         lookup->textname,
         isc_result_totext(result));
  }
 }
 dns_message_puttempname(lookup->sendmsg, &lookup->oname);
```

```
} else {
 debug("using root origin");
 if (lookup->trace && lookup->trace_root)
  dns_name_clone(dns_rootname, lookup->name);
 else {
  len = (unsigned int) strlen(textname);
  isc_buffer_init(&b, textname, len);
  isc_buffer_add(&b, len);
  result = dns_name_fromtext(lookup->name, &b,
        dns_rootname, 0,
        &lookup->namebuf);
 }
 if (result !=
ISC_R_SUCCESS) {
  dns_message_puttempname(lookup->sendmsg,
     &lookup->name);
  fatal("'%s' is not a legal name "
        "(%s)", lookup->textname,
        isc_result_totext(result));
 }
}
dns_name_format(lookup->name, store, sizeof(store));
dighost_trying(store, lookup);
INSIST(dns_name_isabsolute(lookup->name));

isc_random_get(&id);
lookup->sendmsg->id = (unsigned short)id & 0xFFFF;
lookup->sendmsg->opcode = lookup->opcode;
lookup->msgcounter = 0;

/*
 * If this is a trace request, completely disallow recursion after
 * looking up the root name servers, since it's meaningless for traces.
 */
if ((lookup->trace || lookup->ns_search_only) && !lookup->trace_root) {
 lookup->recurse = false;
}

if (lookup->recurse &&
    lookup->rdtype != dns_rdatatype_axfr &&
    lookup->rdtype != dns_rdatatype_ixfr) {
 debug("recursive query");
 lookup->sendmsg->flags |= DNS_MESSAGEFLAG_RD;
}

/* XXX aaflag */
if (lookup->aaonly) {
 debug("AA
```

```
query");
 lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AA;
}

if (lookup->adflag) {
 debug("AD query");
 lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AD;
}

if (lookup->cdflag) {
 debug("CD query");
 lookup->sendmsg->flags |= DNS_MESSAGEFLAG_CD;
}

if (lookup->zflag) {
 debug("Z query");
 lookup->sendmsg->flags |= 0x0040U;
}

dns_message_addname(lookup->sendmsg, lookup->name,
     DNS_SECTION_QUESTION);

if (lookup->trace && lookup->trace_root) {
 lookup->qrdtype = lookup->rdtype;
 lookup->rdtype = dns_rdatatype_ns;
}

if ((lookup->rdtype == dns_rdatatype_axfr) ||
    (lookup->rdtype == dns_rdatatype_ixfr)) {
 /*
  * Force TCP mode if we're doing an axfr.
  */
 if (lookup->rdtype == dns_rdatatype_axfr) {
  lookup->doing_xfr = true;
  lookup->tcp_mode = true;
 } else if (lookup->tcp_mode) {
  lookup->doing_xfr = true;
 }
}

if (!lookup->header_only)
 add_question(lookup->sendmsg, lookup->name, lookup->rdclass,

    lookup->rdtype);

/* add_soa */
if (lookup->rdtype == dns_rdatatype_ixfr)
 insert_soa(lookup);
```

```
/* XXX Insist this? */
lookup->tsigctx = NULL;
lookup->querysig = NULL;
if (tsigkey != NULL) {
 debug("initializing keys");
 result = dns_message_settsigkey(lookup->sendmsg, tsigkey);
 check_result(result, "dns_message_settsigkey");
}

lookup->sendspace = isc_mempool_get(commctx);
if (lookup->sendspace == NULL)
 fatal("memory allocation failure");

result = dns_compress_init(&cctx, -1, mctx);
check_result(result, "dns_compress_init");

debug("starting to render the message");
isc_buffer_init(&lookup->renderbuf, lookup->sendspace, COMMSIZE);
result = dns_message_renderbegin(lookup->sendmsg, &cctx,
    &lookup->renderbuf);
check_result(result, "dns_message_renderbegin");
if (lookup->udpsize > 0 || lookup->dnssec ||
   lookup->edns > -1 || lookup->ecs_addr != NULL)
{
#define MAXOPTS (EDNSOPT_OPTIONS + DNS_EDNSOPTIONS)
 dns_ednsopt_t
opts[MAXOPTS];
 unsigned int flags;
 unsigned int i = 0;

 if (lookup->udpsize == 0)
  lookup->udpsize = 4096;
 if (lookup->edns < 0)
  lookup->edns = 0;

 if (lookup->nsid) {
  INSIST(i < MAXOPTS);
  opts[i].code = DNS_OPT_NSID;
  opts[i].length = 0;
  opts[i].value = NULL;
  i++;
 }

 if (lookup->ecs_addr != NULL) {
  uint8_t addr[16];
  uint16_t family = 0;
  uint32_t plen;
```

```
  struct sockaddr *sa;
  struct sockaddr_in *sin;
  struct sockaddr_in6 *sin6;
  size_t addrl;

  sa = &lookup->ecs_addr->type.sa;
  plen = lookup->ecs_addr->length;

  /* Round up prefix len to a multiple of 8 */
  addrl = (plen + 7) / 8;

  INSIST(i < MAXOPTS);
  opts[i].code = DNS_OPT_CLIENT_SUBNET;
  opts[i].length = (uint16_t) addrl + 4;
  check_result(result, "isc_buffer_allocate");

  /*
   * XXXMUKS: According to RFC7871, "If there is
   * no ADDRESS set, i.e., SOURCE PREFIX-LENGTH is
   * set to 0, then FAMILY SHOULD be set
to the
   * transport over which the query is sent."
   *
   * However, at this point we don't know what
   * transport(s) we'll be using, so we can't
   * set the value now. For now, we're using
   * IPv4 as the default the +subnet option
   * used an IPv4 prefix, or for +subnet=0,
   * and IPv6 if the +subnet option used an
   * IPv6 prefix.
   *
   * (For future work: preserve the offset into
   * the buffer where the family field is;
   * that way we can update it in send_udp()
   * or send_tcp_connect() once we know
   * what it outght to be.)
   */
  switch (sa->sa_family) {
  case AF_UNSPEC:
   INSIST(plen == 0);
   family = 1;
   break;
  case AF_INET:
   INSIST(plen <= 32);
   family = 1;
   sin = (struct sockaddr_in *) sa;
   memmove(addr, &sin->sin_addr, addrl);
   break;
```

```
 case AF_INET6:
  INSIST(plen <= 128);
  family = 2;
  sin6 = (struct sockaddr_in6 *) sa;
  memmove(addr, &sin6->sin6_addr, addrl);
  break;
 default:
  INSIST(0);
  ISC_UNREACHABLE();
 }

 isc_buffer_init(&b,
ecsbuf, sizeof(ecsbuf));
 /* family */
 isc_buffer_putuint16(&b, family);
 /* source prefix-length */
 isc_buffer_putuint8(&b, plen);
 /* scope prefix-length */
 isc_buffer_putuint8(&b, 0);

 /* address */
 if (addrl > 0) {
  /* Mask off last address byte */
  if ((plen % 8) != 0)
   addr[addrl - 1] &=
    ~0U << (8 - (plen % 8));
  isc_buffer_putmem(&b, addr,
      (unsigned)addrl);
 }

 opts[i].value = (uint8_t *) ecsbuf;
 i++;
}

if (lookup->sendcookie) {
 INSIST(i < MAXOPTS);
 opts[i].code = DNS_OPT_COOKIE;
 if (lookup->cookie != NULL) {
  isc_buffer_init(&b, cookiebuf,
    sizeof(cookiebuf));
  result = isc_hex_decodestring(lookup->cookie,
          &b);
  check_result(result, "isc_hex_decodestring");
  opts[i].value = isc_buffer_base(&b);
  opts[i].length = isc_buffer_usedlength(&b);
 } else {
  compute_cookie(cookie,
```

```
sizeof(cookie));
   opts[i].length = 8;
   opts[i].value = cookie;
  }
  i++;
 }

 if (lookup->expire) {
  INSIST(i < MAXOPTS);
  opts[i].code = DNS_OPT_EXPIRE;
  opts[i].length = 0;
  opts[i].value = NULL;
  i++;
 }

 if (lookup->ednsoptscnt != 0) {
  INSIST(i + lookup->ednsoptscnt <= MAXOPTS);
  memmove(&opts[i], lookup->ednsopts,
   sizeof(dns_ednsopt_t) * lookup->ednsoptscnt);
  i += lookup->ednsoptscnt;
 }

 flags = lookup->ednsflags;
 flags &= ~DNS_MESSAGEEXTFLAG_DO;
 if (lookup->dnssec)
  flags |= DNS_MESSAGEEXTFLAG_DO;
 add_opt(lookup->sendmsg, lookup->udpsize,
  lookup->edns, flags, opts, i);
}

result = dns_message_rendersection(lookup->sendmsg,
      DNS_SECTION_QUESTION, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_rendersection(lookup->sendmsg,
      DNS_SECTION_AUTHORITY, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_renderend(lookup->sendmsg);
check_result(result,
"dns_message_renderend");
debug("done rendering");

dns_compress_invalidate(&cctx);

/*
 * Force TCP mode if the request is larger than 512 bytes.
 */
if (isc_buffer_usedlength(&lookup->renderbuf) > 512)
 lookup->tcp_mode = true;
```

```
lookup->pending = false;

for (serv = ISC_LIST_HEAD(lookup->my_server_list);
     serv != NULL;
     serv = ISC_LIST_NEXT(serv, link)) {
 query = isc_mem_allocate(mctx, sizeof(dig_query_t));
 if (query == NULL)
  fatal("memory allocation failure in %s:%d",
        __FILE__, __LINE__);
 debug("create query %p linked to lookup %p",
       query, lookup);
 query->lookup = lookup;
 query->timer = NULL;
 query->waiting_connect = false;
 query->waiting_senddone = false;
 query->pending_free = false;
 query->recv_made = false;
 query->first_pass = true;
 query->first_soa_rcvd = false;
 query->second_rr_rcvd = false;
 query->first_repeat_rcvd = false;
 query->warn_id
= true;
 query->timedout = false;
 query->first_rr_serial = 0;
 query->second_rr_serial = 0;
 query->servname = serv->servername;
 query->userarg = serv->userarg;
 query->rr_count = 0;
 query->msg_count = 0;
 query->byte_count = 0;
 query->ixfr_axfr = false;
 ISC_LIST_INIT(query->recvlist);
 ISC_LIST_INIT(query->lengthlist);
 query->sock = NULL;
 query->recvspace = isc_mempool_get(commctx);
 if (query->recvspace == NULL)
  fatal("memory allocation failure");

 isc_buffer_init(&query->recvbuf, query->recvspace, COMMSIZE);
 isc_buffer_init(&query->lengthbuf, query->lengthspace, 2);
 isc_buffer_init(&query->slbuf, query->slspace, 2);
 query->sendbuf = lookup->renderbuf;

 ISC_LINK_INIT(query, clink);
 ISC_LINK_INIT(query, link);
 ISC_LIST_ENQUEUE(lookup->q, query, link);
```

```
}

/* XXX qrflag, print_query, etc... */
if (!ISC_LIST_EMPTY(lookup->q) && qr) {
 extrabytes = 0;
 dighost_printmessage(ISC_LIST_HEAD(lookup->q), lookup->sendmsg,

    true);
 if (lookup->stats)
  printf(";; QUERY SIZE: %u\n\n",
         isc_buffer_usedlength(&lookup->renderbuf));
 }
 return (true);
}

/*%
* Event handler for send completion.  Track send counter, and clear out
* the query if the send was canceled.
*/
static void
send_done(isc_task_t *_task, isc_event_t *event) {
 isc_socketevent_t *sevent = (isc_socketevent_t *)event;
 isc_buffer_t *b = NULL;
 dig_query_t *query, *next;
 dig_lookup_t *l;

 REQUIRE(event->ev_type == ISC_SOCKEVENT_SENDDONE);

 UNUSED(_task);

 LOCK_LOOKUP;

 debug("send_done()");
 sendcount--;
 debug("sendcount=%d", sendcount);
 INSIST(sendcount >= 0);

 for  (b = ISC_LIST_HEAD(sevent->bufferlist);
       b != NULL;
       b = ISC_LIST_HEAD(sevent->bufferlist)) {
  ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);
  isc_mem_free(mctx, b);
 }

 query = event->ev_arg;
 query->waiting_senddone = false;
 l = query->lookup;
```

```
 if (l->ns_search_only && !l->trace_root
 && !l->tcp_mode) {
  debug("sending next, since searching");
  next = ISC_LIST_NEXT(query, link);
  if (next != NULL)
   send_udp(next);
 }

 isc_event_free(&event);

 if (query->pending_free)
  isc_mem_free(mctx, query);

 check_if_done();
 UNLOCK_LOOKUP;
}

/*%
* Cancel a lookup, sending isc_socket_cancel() requests to all outstanding
* IO sockets.  The cancel handlers should take care of cleaning up the
* query and lookup structures
*/
static void
cancel_lookup(dig_lookup_t *lookup) {
 dig_query_t *query, *next;

 debug("cancel_lookup()");
 query = ISC_LIST_HEAD(lookup->q);
 while (query != NULL) {
  next = ISC_LIST_NEXT(query, link);
  if (query->sock != NULL) {
   isc_socket_cancel(query->sock, global_task,
       ISC_SOCKCANCEL_ALL);
   check_if_done();
  } else {
   clear_query(query);
  }
  query = next;
 }
 lookup->pending = false;
 lookup->retries = 0;
}

static void
bringup_timer(dig_query_t *query, unsigned int default_timeout)
 {
 dig_lookup_t *l;
 unsigned int local_timeout;
```

```
 isc_result_t result;

 debug("bringup_timer()");
 /*
  * If the timer already exists, that means we're calling this
  * a second time (for a retry).  Don't need to recreate it,
  * just reset it.
  */
 l = query->lookup;
 if (ISC_LINK_LINKED(query, link) && ISC_LIST_NEXT(query, link) != NULL)
  local_timeout = SERVER_TIMEOUT;
 else {
  if (timeout == 0)
   local_timeout = default_timeout;
  else
   local_timeout = timeout;
 }
 debug("have local timeout of %d", local_timeout);
 isc_interval_set(&l->interval, local_timeout, 0);
 if (query->timer != NULL)
  isc_timer_detach(&query->timer);
 result = isc_timer_create(timermgr, isc_timertype_once, NULL,
      &l->interval, global_task, connect_timeout,
      query, &query->timer);
 check_result(result, "isc_timer_create");
}

static void
force_timeout(dig_query_t *query) {
 isc_event_t *event;

 debug("force_timeout ()");
 event = isc_event_allocate(mctx,
 query, ISC_TIMEREVENT_IDLE,
       connect_timeout, query,
       sizeof(isc_event_t));
 if (event == NULL) {
  fatal("isc_event_allocate: %s",
        isc_result_totext(ISC_R_NOMEMORY));
 }
 isc_task_send(global_task, &event);

 /*
  * The timer may have expired if, for example, get_address() takes
  * long time and the timer was running on a different thread.
  * We need to cancel the possible timeout event not to confuse
  * ourselves due to the duplicate events.
  */
```

```
 if (query->timer != NULL)
  isc_timer_detach(&query->timer);
}


static void
connect_done(isc_task_t *task, isc_event_t *event);

/*%
* Unlike send_udp, this can't be called multiple times with the same
* query.  When we retry TCP, we requeue the whole lookup, which should
* start anew.
*/
static void
send_tcp_connect(dig_query_t *query) {
 isc_result_t result;
 dig_query_t *next;
 dig_lookup_t *l;

 debug("send_tcp_connect(%p)", query);

 l = query->lookup;
 query->waiting_connect
 = true;
 query->lookup->current_query = query;
 result = get_address(query->servname, port, &query->sockaddr);
 if (result != ISC_R_SUCCESS) {
  /*
   * This servname doesn't have an address.  Try the next server
   * by triggering an immediate 'timeout' (we lie, but the effect
   * is the same).
   */
  force_timeout(query);
  return;
 }

 if (!l->mapped && isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
     IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
  isc_netaddr_t netaddr;
  char buf[ISC_NETADDR_FORMATSIZE];

  isc_netaddr_fromsockaddr(&netaddr, &query->sockaddr);
  isc_netaddr_format(&netaddr, buf, sizeof(buf));
  printf(";; Skipping mapped address '%s'\n", buf);

  query->waiting_connect = false;
  if (ISC_LINK_LINKED(query, link))
   next = ISC_LIST_NEXT(query, link);
```

```
 else
  next = NULL;
 l = query->lookup;
 clear_query(query);
 if (next == NULL) {
  printf(";; No acceptable nameservers\n");
  check_next_lookup(l);
  return;
 }
 send_tcp_connect(next);
 return;
}

INSIST(query->sock
== NULL);

if (keep != NULL && isc_sockaddr_equal(&keepaddr, &query->sockaddr)) {
 sockcount++;
 isc_socket_attach(keep, &query->sock);
 query->waiting_connect = false;
 launch_next_query(query, true);
 goto search;
}

result = isc_socket_create(socketmgr,
      isc_sockaddr_pf(&query->sockaddr),
      isc_sockettype_tcp, &query->sock);
check_result(result, "isc_socket_create");
sockcount++;
debug("sockcount=%d", sockcount);
if (query->lookup->dscp != -1)
 isc_socket_dscp(query->sock, query->lookup->dscp);
isc_socket_ipv6only(query->sock, !query->lookup->mapped);
if (specified_source)
 result = isc_socket_bind(query->sock, &bind_address,
     ISC_SOCKET_REUSEADDRESS);
else {
 if ((isc_sockaddr_pf(&query->sockaddr) == AF_INET) &&
     have_ipv4)
  isc_sockaddr_any(&bind_any);
 else
  isc_sockaddr_any6(&bind_any);
 result = isc_socket_bind(query->sock,
&bind_any, 0);
}
check_result(result, "isc_socket_bind");
bringup_timer(query, TCP_TIMEOUT);
result = isc_socket_connect(query->sock, &query->sockaddr,
```

```
        global_task, connect_done, query);
 check_result(result, "isc_socket_connect");
search:
 /*
  * If we're at the endgame of a nameserver search, we need to
  * immediately bring up all the queries.  Do it here.
  */
 if (l->ns_search_only && !l->trace_root) {
  debug("sending next, since searching");
  if (ISC_LINK_LINKED(query, link)) {
   next = ISC_LIST_NEXT(query, link);
   ISC_LIST_DEQUEUE(l->q, query, link);
  } else
   next = NULL;
  ISC_LIST_ENQUEUE(l->connecting, query, clink);
  if (next != NULL)
   send_tcp_connect(next);
 }
}

static isc_buffer_t *
clone_buffer(isc_buffer_t *source) {
 isc_buffer_t *buffer;
 buffer = isc_mem_allocate(mctx, sizeof(*buffer));
 if (buffer == NULL)
  fatal("memory allocation failure in %s:%d",
        __FILE__, __LINE__);
 *buffer = *source;
 return
 (buffer);
}

/*%
* Send a UDP packet to the remote nameserver, possible starting the
* recv action as well.  Also make sure that the timer is running and
* is properly reset.
*/
static void
send_udp(dig_query_t *query) {
 dig_lookup_t *l = NULL;
 isc_result_t result;
 isc_buffer_t *sendbuf;
 dig_query_t *next;

 debug("send_udp(%p)", query);

 l = query->lookup;
 bringup_timer(query, UDP_TIMEOUT);
```

```
l->current_query = query;
debug("working on lookup %p, query %p", query->lookup, query);
if (!query->recv_made) {
 /* XXX Check the sense of this, need assertion? */
 query->waiting_connect = false;
 result = get_address(query->servname, port, &query->sockaddr);
 if (result != ISC_R_SUCCESS) {
  /* This servname doesn't have an address. */
  force_timeout(query);
  return;
 }

 if (!l->mapped &&
     isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
     IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
  isc_netaddr_t netaddr;
  char
buf[ISC_NETADDR_FORMATSIZE];

  isc_netaddr_fromsockaddr(&netaddr, &query->sockaddr);
  isc_netaddr_format(&netaddr, buf, sizeof(buf));
  printf(";; Skipping mapped address '%s'\n", buf);

  next = ISC_LIST_NEXT(query, link);
  l = query->lookup;
  clear_query(query);
  if (next == NULL) {
   printf(";; No acceptable nameservers\n");
   check_next_lookup(l);
  } else {
   send_udp(next);
  }
  return;
 }

 result = isc_socket_create(socketmgr,
       isc_sockaddr_pf(&query->sockaddr),
       isc_sockettype_udp, &query->sock);
 check_result(result, "isc_socket_create");
 sockcount++;
 debug("sockcount=%d", sockcount);
 if (query->lookup->dscp != -1)
  isc_socket_dscp(query->sock, query->lookup->dscp);
 isc_socket_ipv6only(query->sock,
       !query->lookup->mapped);
 if (specified_source) {
  result = isc_socket_bind(query->sock, &bind_address,
      ISC_SOCKET_REUSEADDRESS);
```

```
 } else {
  isc_sockaddr_anyofpf(&bind_any,
    isc_sockaddr_pf(&query->sockaddr));
  result
= isc_socket_bind(query->sock, &bind_any, 0);
 }
 check_result(result, "isc_socket_bind");

 query->recv_made = true;
 ISC_LINK_INIT(&query->recvbuf, link);
 ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf,
    link);
 debug("recving with lookup=%p, query=%p, sock=%p",
       query->lookup, query, query->sock);
 result = isc_socket_recvv(query->sock, &query->recvlist, 1,
      global_task, recv_done, query);
 check_result(result, "isc_socket_recvv");
 recvcount++;
 debug("recvcount=%d", recvcount);
}
ISC_LIST_INIT(query->sendlist);
sendbuf = clone_buffer(&query->sendbuf);
ISC_LIST_ENQUEUE(query->sendlist, sendbuf, link);
debug("sending a request");
TIME_NOW(&query->time_sent);
INSIST(query->sock != NULL);
query->waiting_senddone = true;
result = isc_socket_sendtov2(query->sock, &query->sendlist,
        global_task, send_done, query,
        &query->sockaddr, NULL,
        ISC_SOCKFLAG_NORETRY);
check_result(result,
"isc_socket_sendtov");
sendcount++;
}

/*%
* If there are more servers available for querying within 'lookup', initiate a
* TCP or UDP query to the next available server and return true; otherwise,
* return false.
*/
static bool
try_next_server(dig_lookup_t *lookup) {
 dig_query_t *current_query, *next_query;

 current_query = lookup->current_query;
 if (current_query == NULL || !ISC_LINK_LINKED(current_query, link)) {
  return (false);
```

```
 }

 next_query = ISC_LIST_NEXT(current_query, link);
 if (next_query == NULL) {
  return (false);
 }

 debug("trying next server...");

 if (lookup->tcp_mode) {
  send_tcp_connect(next_query);
 } else {
  send_udp(next_query);
 }

 return (true);
}

/*%
* IO timeout handler, used for both connect and recv timeouts.  If
* retries are still allowed, either resend the UDP packet or queue a
* new TCP lookup.  Otherwise, cancel the lookup.
*/
static void
connect_timeout(isc_task_t
 *task, isc_event_t *event) {
 dig_lookup_t *l = NULL;
 dig_query_t *query = NULL;

 UNUSED(task);
 REQUIRE(event->ev_type == ISC_TIMEREVENT_IDLE);

 debug("connect_timeout()");

 LOCK_LOOKUP;
 query = event->ev_arg;
 l = query->lookup;
 isc_event_free(&event);

 INSIST(!free_now);

 if (cancel_now) {
  UNLOCK_LOOKUP;
  return;
 }

 if (try_next_server(l)) {
  if (l->tcp_mode) {
```

```
  if (query->sock != NULL) {
   isc_socket_cancel(query->sock, NULL,
       ISC_SOCKCANCEL_ALL);
  } else {
   clear_query(query);
  }
 }
 UNLOCK_LOOKUP;
 return;
}

if (l->tcp_mode && query->sock != NULL) {
 query->timedout = true;
 isc_socket_cancel(query->sock, NULL, ISC_SOCKCANCEL_ALL);
}

if (l->retries > 1) {
 if (!l->tcp_mode) {
  l->retries--;
  debug("resending UDP request to first server");
  send_udp(ISC_LIST_HEAD(l->q));
 } else {
  debug("making new TCP request, %d tries left",
        l->retries);
  l->retries--;
  requeue_lookup(l,
true);
  cancel_lookup(l);
  check_next_lookup(l);
 }
} else {
 if (!l->ns_search_only) {
  fputs(l->cmdline, stdout);
  printf(";; connection timed out; no servers could be "
         "reached\n");
 }
 cancel_lookup(l);
 check_next_lookup(l);
 if (exitcode < 9)
  exitcode = 9;
}
 UNLOCK_LOOKUP;
}

/*%
* Event handler for the TCP recv which gets the length header of TCP
* packets.  Start the next recv of length bytes.
*/
```

```
static void
tcp_length_done(isc_task_t *task, isc_event_t *event) {
 isc_socketevent_t *sevent;
 isc_buffer_t *b = NULL;
 isc_result_t result;
 dig_query_t *query = NULL;
 dig_lookup_t *l, *n;
 uint16_t length;

 REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
 INSIST(!free_now);

 UNUSED(task);

 debug("tcp_length_done()");

 LOCK_LOOKUP;
 sevent = (isc_socketevent_t *)event;
 query = event->ev_arg;

 recvcount--;
 INSIST(recvcount >= 0);

 b = ISC_LIST_HEAD(sevent->bufferlist);
 INSIST(b
 ==  &query->lengthbuf);
 ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);

 if (sevent->result == ISC_R_CANCELED) {
  isc_event_free(&event);
  l = query->lookup;
  clear_query(query);
  check_next_lookup(l);
  UNLOCK_LOOKUP;
  return;
 }
 if (sevent->result != ISC_R_SUCCESS) {
  char sockstr[ISC_SOCKADDR_FORMATSIZE];
  isc_sockaddr_format(&query->sockaddr, sockstr,
        sizeof(sockstr));
  printf(";; communications error to %s: %s\n",
         sockstr, isc_result_totext(sevent->result));
  if (keep != NULL)
   isc_socket_detach(&keep);
  l = query->lookup;
  isc_socket_detach(&query->sock);
  sockcount--;
  debug("sockcount=%d", sockcount);
```

```
 INSIST(sockcount >= 0);
 if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
  n = requeue_lookup(l, true);
  n->eoferr++;
 }
 isc_event_free(&event);
 clear_query(query);
 cancel_lookup(l);
 check_next_lookup(l);
 UNLOCK_LOOKUP;
 return;
}
length = isc_buffer_getuint16(b);
if (length == 0)
{
 isc_event_free(&event);
 launch_next_query(query, false);
 UNLOCK_LOOKUP;
 return;
}

/*
 * Even though the buffer was already init'ed, we need
 * to redo it now, to force the length we want.
 */
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_init(&query->recvbuf, query->recvspace, length);
ENSURE(ISC_LIST_EMPTY(query->recvlist));
ISC_LINK_INIT(&query->recvbuf, link);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
debug("recving with lookup=%p, query=%p", query->lookup, query);
result = isc_socket_recvv(query->sock, &query->recvlist, length, task,
    recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debug("resubmitted recv request with length %d, recvcount=%d",
     length, recvcount);
isc_event_free(&event);
UNLOCK_LOOKUP;
}

/*%
* For transfers that involve multiple recvs (XFR's in particular),
* launch the next recv.
*/
static void
launch_next_query(dig_query_t *query, bool include_question)
```

```
{
isc_result_t result;
dig_lookup_t *l;
isc_buffer_t *buffer;

INSIST(!free_now);

debug("launch_next_query()");

if (!query->lookup->pending) {
 debug("ignoring launch_next_query because !pending");
 isc_socket_detach(&query->sock);
 sockcount--;
 debug("sockcount=%d", sockcount);
 INSIST(sockcount >= 0);
 query->waiting_connect = false;
 l = query->lookup;
 clear_query(query);
 check_next_lookup(l);
 return;
}

isc_buffer_clear(&query->slbuf);
isc_buffer_clear(&query->lengthbuf);
isc_buffer_putuint16(&query->slbuf, (uint16_t) query->sendbuf.used);
ISC_LIST_INIT(query->sendlist);
ISC_LINK_INIT(&query->slbuf, link);
if (!query->first_soa_rcvd) {
 buffer = clone_buffer(&query->slbuf);
 ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
 if (include_question) {
  buffer = clone_buffer(&query->sendbuf);
  ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
 }
}

ISC_LINK_INIT(&query->lengthbuf, link);
ISC_LIST_ENQUEUE(query->lengthlist,
&query->lengthbuf, link);

result = isc_socket_recvv(query->sock, &query->lengthlist, 0,
    global_task, tcp_length_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debug("recvcount=%d", recvcount);
if (!query->first_soa_rcvd) {
 debug("sending a request in launch_next_query");
 TIME_NOW(&query->time_sent);
```

```
 query->waiting_senddone = true;
 result = isc_socket_sendv(query->sock, &query->sendlist,
      global_task, send_done, query);
 check_result(result, "isc_socket_sendv");
 sendcount++;
 debug("sendcount=%d", sendcount);
 }
 query->waiting_connect = false;
#if 0
 check_next_lookup(query->lookup);
#endif
 return;
}

/*%
* Event handler for TCP connect complete.  Make sure the connection was
* successful, then pass into launch_next_query to actually send the
* question.
*/
static void
connect_done(isc_task_t *task, isc_event_t *event) {
 char sockstr[ISC_SOCKADDR_FORMATSIZE];
 isc_socketevent_t
 *sevent = NULL;
 dig_query_t *query = NULL, *next;
 dig_lookup_t *l;

 UNUSED(task);

 REQUIRE(event->ev_type == ISC_SOCKEVENT_CONNECT);
 INSIST(!free_now);

 debug("connect_done()");

 LOCK_LOOKUP;
 sevent = (isc_socketevent_t *)event;
 query = sevent->ev_arg;

 INSIST(query->waiting_connect);

 query->waiting_connect = false;

 if (sevent->result == ISC_R_CANCELED) {
  debug("in cancel handler");
  isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
  if (query->timedout)
   printf(";; Connection to %s(%s) for %s failed: %s.\n",
          sockstr, query->servname,
```

```
        query->lookup->textname,
        isc_result_totext(ISC_R_TIMEDOUT));
 isc_socket_detach(&query->sock);
 INSIST(sockcount > 0);
 sockcount--;
 debug("sockcount=%d", sockcount);
 query->waiting_connect = false;
 isc_event_free(&event);
 l = query->lookup;
 clear_query(query);
 check_next_lookup(l);
 UNLOCK_LOOKUP;
 return;
}
if (sevent->result !=
ISC_R_SUCCESS) {

 debug("unsuccessful connection: %s",
       isc_result_totext(sevent->result));
 isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
 if (sevent->result != ISC_R_CANCELED)
  printf(";; Connection to %s(%s) for %s failed: "
         "%s.\n", sockstr,
         query->servname, query->lookup->textname,
         isc_result_totext(sevent->result));
 isc_socket_detach(&query->sock);
 INSIST(sockcount > 0);
 sockcount--;
 /* XXX Clean up exitcodes */
 if (exitcode < 9)
  exitcode = 9;
 debug("sockcount=%d", sockcount);
 query->waiting_connect = false;
 isc_event_free(&event);
 l = query->lookup;
 if ((l->current_query != NULL) &&
     (ISC_LINK_LINKED(l->current_query, link)))
  next = ISC_LIST_NEXT(l->current_query, link);
 else
  next = NULL;
 clear_query(query);
 if (next != NULL) {
  bringup_timer(next, TCP_TIMEOUT);
  send_tcp_connect(next);
 } else
  check_next_lookup(l);
 UNLOCK_LOOKUP;
 return;
```

```
 }
 exitcode
 = 0;
 if (keep_open) {
  if (keep != NULL)
   isc_socket_detach(&keep);
  isc_socket_attach(query->sock, &keep);
  keepaddr = query->sockaddr;
 }
 launch_next_query(query, true);
 isc_event_free(&event);
 UNLOCK_LOOKUP;
}

/*%
* Check if the ongoing XFR needs more data before it's complete, using
* the semantics of IXFR and AXFR protocols.  Much of the complexity of
* this routine comes from determining when an IXFR is complete.
* false means more data is on the way, and the recv has been issued.
*/
static bool
check_for_more_data(dig_query_t *query, dns_message_t *msg,
      isc_socketevent_t *sevent)
{
 dns_rdataset_t *rdataset = NULL;
 dns_rdata_t rdata = DNS_RDATA_INIT;
 dns_rdata_soa_t soa;
 uint32_t ixfr_serial = query->lookup->ixfr_serial, serial;
 isc_result_t result;
 bool ixfr = query->lookup->rdtype == dns_rdatatype_ixfr;
 bool axfr = query->lookup->rdtype == dns_rdatatype_axfr;

 if (ixfr)
  axfr = query->ixfr_axfr;

 debug("check_for_more_data()");

 /*

 * By the time we're in this routine, we know we're doing
  * either an AXFR or IXFR.  If there's no second_rr_type,
  * then we don't yet know which kind of answer we got back
  * from the server.  Here, we're going to walk through the
  * rr's in the message, acting as necessary whenever we hit
  * an SOA rr.
  */

 query->msg_count++;
```

```
query->byte_count += sevent->n;
result = dns_message_firstname(msg, DNS_SECTION_ANSWER);
if (result != ISC_R_SUCCESS) {
 puts("; Transfer failed.");
 return (true);
}
do {
 dns_name_t *name;
 name = NULL;
 dns_message_currentname(msg, DNS_SECTION_ANSWER,
    &name);
 for (rdataset = ISC_LIST_HEAD(name->list);
      rdataset != NULL;
      rdataset = ISC_LIST_NEXT(rdataset, link)) {
  result = dns_rdataset_first(rdataset);
  if (result != ISC_R_SUCCESS)
   continue;
  do {
   query->rr_count++;
   dns_rdata_reset(&rdata);
   dns_rdataset_current(rdataset, &rdata);
   /*

* If this is the first rr, make sure
    * it's an SOA
    */
   if ((!query->first_soa_rcvd) &&
       (rdata.type != dns_rdatatype_soa)) {
    puts("; Transfer failed.  "
         "Didn't start with SOA answer.");
    return (true);
   }
   if ((!query->second_rr_rcvd) &&
       (rdata.type != dns_rdatatype_soa)) {
    query->second_rr_rcvd = true;
    query->second_rr_serial = 0;
    debug("got the second rr as nonsoa");
    axfr = query->ixfr_axfr = true;
    goto next_rdata;
   }

   /*
    * If the record is anything except an SOA
    * now, just continue on...
    */
   if (rdata.type != dns_rdatatype_soa)
    goto next_rdata;
```

```
   /* Now we have an SOA.  Work with it. */
   debug("got an SOA");
   result = dns_rdata_tostruct(&rdata, &soa, NULL);
   check_result(result, "dns_rdata_tostruct");
   serial = soa.serial;
   dns_rdata_freestruct(&soa);
   if (!query->first_soa_rcvd) {
    query->first_soa_rcvd
= true;
    query->first_rr_serial = serial;
    debug("this is the first serial %u",
          serial);
    if (ixfr && isc_serial_ge(ixfr_serial,
        serial)) {
     debug("got up to date "
           "response");
     goto doexit;
    }
    goto next_rdata;
   }
   if (axfr) {
    debug("doing axfr, got second SOA");
    goto doexit;
   }
   if (!query->second_rr_rcvd) {
    if (query->first_rr_serial == serial) {
     debug("doing ixfr, got "
           "empty zone");
     goto doexit;
    }
    debug("this is the second serial %u",
          serial);
    query->second_rr_rcvd = true;
    query->second_rr_serial = serial;
    goto next_rdata;
   }
   /*
    * If we get to this point, we're doing an
    * IXFR and have to start really looking
    * at serial numbers.
    */
   if (query->first_rr_serial == serial) {
    debug("got a match for ixfr");
    if (!query->first_repeat_rcvd) {
     query->first_repeat_rcvd
=
      true;
     goto next_rdata;
```

```
     }
     debug("done with ixfr");
     goto doexit;
    }
    debug("meaningless soa %u", serial);
   next_rdata:
    result = dns_rdataset_next(rdataset);
   } while (result == ISC_R_SUCCESS);
  }
  result = dns_message_nextname(msg, DNS_SECTION_ANSWER);
 } while (result == ISC_R_SUCCESS);
 launch_next_query(query, false);
 return (false);
doexit:
 dighost_received(sevent->n, &sevent->address, query);
 return (true);
}

static void
process_cookie(dig_lookup_t *l, dns_message_t *msg,
        isc_buffer_t *optbuf, size_t optlen)
{
 char bb[256];
 isc_buffer_t hexbuf;
 size_t len;
 const unsigned char *sent;
 bool copy = true;
 isc_result_t result;

 if (l->cookie != NULL) {
  isc_buffer_init(&hexbuf, bb, sizeof(bb));
  result = isc_hex_decodestring(l->cookie, &hexbuf);
  check_result(result, "isc_hex_decodestring");
  sent = isc_buffer_base(&hexbuf);
  len = isc_buffer_usedlength(&hexbuf);
 } else
 {
  sent = cookie;
  len = sizeof(cookie);
 }

 INSIST(msg->cc_ok == 0 && msg->cc_bad == 0);
 if (len >= 8 && optlen >= 8U) {
  if (isc_safe_memequal(isc_buffer_current(optbuf), sent, 8)) {
   msg->cc_ok = 1;
  } else {
   printf(";; Warning: Client COOKIE mismatch\n");
   msg->cc_bad = 1;
```

```
  copy = false;
 }
 } else {
 printf(";; Warning: COOKIE bad token (too short)\n");
 msg->cc_bad = 1;
 copy = false;
 }
 if (copy) {
 isc_region_t r;

 r.base = isc_buffer_current(optbuf);
 r.length = (unsigned int)optlen;
 isc_buffer_init(&hexbuf, servercookie, sizeof(servercookie));
 result = isc_hex_totext(&r, 2, "", &hexbuf);
 check_result(result, "isc_hex_totext");
 if (isc_buffer_availablelength(&hexbuf) > 0) {
  isc_buffer_putuint8(&hexbuf, 0);
  l->cookie = servercookie;
 }
 }
 isc_buffer_forward(optbuf, (unsigned int)optlen);
}

static void
process_opt(dig_lookup_t *l, dns_message_t *msg) {
 dns_rdata_t rdata;
 isc_result_t result;
 isc_buffer_t
 optbuf;
 uint16_t optcode, optlen;
 dns_rdataset_t *opt = msg->opt;
 bool seen_cookie = false;

 result = dns_rdataset_first(opt);
 if (result == ISC_R_SUCCESS) {
 dns_rdata_init(&rdata);
 dns_rdataset_current(opt, &rdata);
 isc_buffer_init(&optbuf, rdata.data, rdata.length);
 isc_buffer_add(&optbuf, rdata.length);
 while (isc_buffer_remaininglength(&optbuf) >= 4) {
  optcode = isc_buffer_getuint16(&optbuf);
  optlen = isc_buffer_getuint16(&optbuf);
  switch (optcode) {
  case DNS_OPT_COOKIE:
   /*
    * Only process the first cookie option.
    */
   if (seen_cookie) {
```

```
     isc_buffer_forward(&optbuf, optlen);
     break;
    }
    process_cookie(l, msg, &optbuf, optlen);
    seen_cookie = true;
    break;
   default:
    isc_buffer_forward(&optbuf, optlen);
    break;
   }
  }
 }
}

static int
ednsvers(dns_rdataset_t *opt) {
 return ((opt->ttl >> 16) & 0xff);
}

/*%
* Event handler for recv complete.  Perform whatever actions
 are necessary,
* based on the specifics of the user's request.
*/
static void
recv_done(isc_task_t *task, isc_event_t *event) {
 isc_socketevent_t *sevent = NULL;
 dig_query_t *query = NULL;
 isc_buffer_t *b = NULL;
 dns_message_t *msg = NULL;
#ifdef DIG_SIGCHASE
 dig_message_t *chase_msg = NULL;
 dig_message_t *chase_msg2 = NULL;
#endif
 isc_result_t result;
 dig_lookup_t *n, *l;
 bool docancel = false;
 bool match = true;
 bool done_process_opt = false;
 unsigned int parseflags;
 dns_messageid_t id;
 unsigned int msgflags;
#ifdef DIG_SIGCHASE
 isc_result_t do_sigchase = false;

 dns_message_t *msg_temp = NULL;
 isc_region_t r;
 isc_buffer_t *buf = NULL;
```

```
#endif
 int newedns;

 UNUSED(task);
 INSIST(!free_now);

 debug("recv_done()");

 LOCK_LOOKUP;
 recvcount--;
 debug("recvcount=%d", recvcount);
 INSIST(recvcount >= 0);

 query = event->ev_arg;
 TIME_NOW(&query->time_recv);
 debug("lookup=%p, query=%p", query->lookup, query);

 l =
 query->lookup;

 REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
 sevent = (isc_socketevent_t *)event;

 b = ISC_LIST_HEAD(sevent->bufferlist);
 INSIST(b == &query->recvbuf);
 ISC_LIST_DEQUEUE(sevent->bufferlist, &query->recvbuf, link);

 if ((l->tcp_mode) && (query->timer != NULL))
  isc_timer_touch(query->timer);
 if ((!l->pending && !l->ns_search_only) || cancel_now) {
  debug("no longer pending.  Got %s",
   isc_result_totext(sevent->result));
  query->waiting_connect = false;

  isc_event_free(&event);
  clear_query(query);
  check_next_lookup(l);
  UNLOCK_LOOKUP;
  return;
 }

 if (sevent->result != ISC_R_SUCCESS) {
  if (sevent->result == ISC_R_CANCELED) {
   debug("in recv cancel handler");
   query->waiting_connect = false;
  } else {
   printf(";; communications error: %s\n",
          isc_result_totext(sevent->result));
```

```
 if (keep != NULL)
  isc_socket_detach(&keep);
 isc_socket_detach(&query->sock);
 sockcount--;
 debug("sockcount=%d",
sockcount);
 INSIST(sockcount >= 0);
 }
 if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
 n = requeue_lookup(l, true);
 n->eoferr++;
 }
 isc_event_free(&event);
 clear_query(query);
 cancel_lookup(l);
 check_next_lookup(l);
 UNLOCK_LOOKUP;
 return;
}

if (!l->tcp_mode &&
    !isc_sockaddr_compare(&sevent->address, &query->sockaddr,
     ISC_SOCKADDR_CMPADDR|
     ISC_SOCKADDR_CMPPORT|
     ISC_SOCKADDR_CMPSCOPE|
     ISC_SOCKADDR_CMPSCOPEZERO)) {
 char buf1[ISC_SOCKADDR_FORMATSIZE];
 char buf2[ISC_SOCKADDR_FORMATSIZE];
 isc_sockaddr_t any;

 if (isc_sockaddr_pf(&query->sockaddr) == AF_INET)
  isc_sockaddr_any(&any);
 else
  isc_sockaddr_any6(&any);

 /*
 * We don't expect a match when the packet is
 * sent to 0.0.0.0, :: or to a multicast addresses.
 * XXXMPA broadcast needs to be handled here as well.
 */
 if ((!isc_sockaddr_eqaddr(&query->sockaddr, &any) &&
      !isc_sockaddr_ismulticast(&query->sockaddr))
||
     isc_sockaddr_getport(&query->sockaddr) !=
     isc_sockaddr_getport(&sevent->address)) {
  isc_sockaddr_format(&sevent->address, buf1,
  sizeof(buf1));
  isc_sockaddr_format(&query->sockaddr, buf2,
```

```
 sizeof(buf2));
 printf(";; reply from unexpected source: %s,"
 " expected %s\n", buf1, buf2);
 match = false;
 }
}

result = dns_message_peekheader(b, &id, &msgflags);
if (result != ISC_R_SUCCESS || l->sendmsg->id != id) {
 match = false;
 if (l->tcp_mode) {
  bool fail = true;
  if (result == ISC_R_SUCCESS) {
   if (!query->first_soa_rcvd ||
       query->warn_id)
    printf(";; %s: ID mismatch: "
          "expected ID %u, got %u\n",
          query->first_soa_rcvd ?
          "WARNING" : "ERROR",
          l->sendmsg->id, id);
   if (query->first_soa_rcvd)
    fail = false;
   query->warn_id = false;
  } else
   printf(";; ERROR: short "
         "(< header size) message\n");
  if (fail) {
   isc_event_free(&event);
   clear_query(query);
   cancel_lookup(l);
   check_next_lookup(l);
   UNLOCK_LOOKUP;
   return;
  }
  match
= true;
 } else if (result == ISC_R_SUCCESS)
  printf(";; Warning: ID mismatch: "
        "expected ID %u, got %u\n", l->sendmsg->id, id);
 else
  printf(";; Warning: short "
        "(< header size) message received\n");
}

if (result == ISC_R_SUCCESS && (msgflags & DNS_MESSAGEFLAG_QR) == 0)
 printf(";; Warning: query response not set\n");

if (!match)
```

```
 goto udp_mismatch;

result = dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE, &msg);
check_result(result, "dns_message_create");

if (tsigkey != NULL) {
 if (l->querysig == NULL) {
  debug("getting initial querysig");
  result = dns_message_getquerytsig(l->sendmsg, mctx,
        &l->querysig);
  check_result(result, "dns_message_getquerytsig");
 }
 result = dns_message_setquerytsig(msg, l->querysig);
 check_result(result, "dns_message_setquerytsig");
 result
= dns_message_settsigkey(msg, tsigkey);
 check_result(result, "dns_message_settsigkey");
 msg->tsigctx = l->tsigctx;
 l->tsigctx = NULL;
 if (l->msgcounter != 0)
  msg->tcp_continuation = 1;
 l->msgcounter++;
}

debug("before parse starts");
parseflags = DNS_MESSAGEPARSE_PRESERVEORDER;
#ifdef DIG_SIGCHASE
if (!l->sigchase) {
 do_sigchase = false;
} else {
 parseflags = 0;
 do_sigchase = true;
}
#endif
if (l->besteffort) {
 parseflags |= DNS_MESSAGEPARSE_BESTEFFORT;
 parseflags |= DNS_MESSAGEPARSE_IGNORETRUNCATION;
}
result = dns_message_parse(msg, b, parseflags);
if (result == DNS_R_RECOVERABLE) {
 printf(";; Warning: Message parser reports malformed "
       "message packet.\n");
 result = ISC_R_SUCCESS;
}
if (result != ISC_R_SUCCESS) {
 printf(";; Got bad packet: %s\n", isc_result_totext(result));
 hex_dump(b);
 query->waiting_connect = false;
```

```
 dns_message_destroy(&msg);
 isc_event_free(&event);
 clear_query(query);
 cancel_lookup(l);
 check_next_lookup(l);
 UNLOCK_LOOKUP;
 return;
}
if
(msg->counts[DNS_SECTION_QUESTION] != 0) {
 match = true;
 for (result = dns_message_firstname(msg, DNS_SECTION_QUESTION);
      result == ISC_R_SUCCESS && match;
      result = dns_message_nextname(msg, DNS_SECTION_QUESTION)) {
  dns_name_t *name = NULL;
  dns_rdataset_t *rdataset;

  dns_message_currentname(msg, DNS_SECTION_QUESTION,
     &name);
  for (rdataset = ISC_LIST_HEAD(name->list);
       rdataset != NULL;
       rdataset = ISC_LIST_NEXT(rdataset, link)) {
   if (l->rdtype != rdataset->type ||
       l->rdclass != rdataset->rdclass ||
       !dns_name_equal(l->name, name)) {
    char namestr[DNS_NAME_FORMATSIZE];
    char typebuf[DNS_RDATATYPE_FORMATSIZE];
    char classbuf[DNS_RDATACLASS_FORMATSIZE];
    dns_name_format(name, namestr,
      sizeof(namestr));
    dns_rdatatype_format(rdataset->type,
          typebuf,

sizeof(typebuf));
    dns_rdataclass_format(rdataset->rdclass,
           classbuf,
           sizeof(classbuf));
    printf(";; Question section mismatch: "
          "got %s/%s/%s\n",
          namestr, typebuf, classbuf);
    match = false;
   }
  }
 }
 if (!match) {
  dns_message_destroy(&msg);
  if (l->tcp_mode) {
   isc_event_free(&event);
```

```
  clear_query(query);
  cancel_lookup(l);
  check_next_lookup(l);
  UNLOCK_LOOKUP;
  return;
 } else
  goto udp_mismatch;
}
}
if (msg->rcode == dns_rcode_badvers && msg->opt != NULL &&
   (newedns = ednsvers(msg->opt)) < l->edns && l->ednsneg) {
/*
 * Add minimum EDNS version required checks here if needed.
 */
if (l->comments)
 printf(";; BADVERS, retrying with EDNS version %u.\n",
       (unsigned int)newedns);
l->edns = newedns;
n = requeue_lookup(l, true);
if (l->trace && l->trace_root)
 n->rdtype = l->qrdtype;
dns_message_destroy(&msg);
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if
((msg->flags & DNS_MESSAGEFLAG_TC) != 0 &&
   !l->ignore && !l->tcp_mode) {
if (l->cookie == NULL && l->sendcookie && msg->opt != NULL)
 process_opt(l, msg);
if (l->comments)
 printf(";; Truncated, retrying in TCP mode.\n");
n = requeue_lookup(l, true);
n->tcp_mode = true;
if (l->trace && l->trace_root)
 n->rdtype = l->qrdtype;
dns_message_destroy(&msg);
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
```

```
if (msg->rcode == dns_rcode_badcookie && !l->tcp_mode &&
    l->sendcookie && l->badcookie) {
 process_opt(l, msg);
 if (msg->cc_ok) {
  if (l->comments)
   printf(";; BADCOOKIE, retrying%s.\n",
          l->seenbadcookie ? " in TCP mode" : "");
  n = requeue_lookup(l, true);
  if (l->seenbadcookie)
   n->tcp_mode = true;
  n->seenbadcookie
= true;
  if (l->trace && l->trace_root)
   n->rdtype = l->qrdtype;
  dns_message_destroy(&msg);
  isc_event_free(&event);
  clear_query(query);
  cancel_lookup(l);
  check_next_lookup(l);
  UNLOCK_LOOKUP;
  return;
 }
 done_process_opt = true;
}
if ((msg->rcode == dns_rcode_servfail && !l->servfail_stops) ||
    (check_ra && (msg->flags & DNS_MESSAGEFLAG_RA) == 0 && l->recurse))
{
 dig_query_t *next = ISC_LIST_NEXT(query, link);
 if (l->current_query == query)
  l->current_query = NULL;
 if (next != NULL) {
  debug("sending query %p\n", next);
  if (l->tcp_mode)
   send_tcp_connect(next);
  else
   send_udp(next);
 }
 /*
  * If our query is at the head of the list and there
  * is no next, we're the only one left, so fall
  * through to print the message.
  */
 if ((ISC_LIST_HEAD(l->q) != query) ||
     (ISC_LIST_NEXT(query, link) != NULL)) {
  if (l->comments)
   printf(";; Got %s from %s, "
          "trying
```

```
next server\n",
        msg->rcode == dns_rcode_servfail ?
        "SERVFAIL reply" :
        "recursion not available",
        query->servname);
  clear_query(query);
  check_next_lookup(l);
  dns_message_destroy(&msg);
  isc_event_free(&event);
  UNLOCK_LOOKUP;
  return;
 }
}

if (tsigkey != NULL) {
 result = dns_tsig_verify(&query->recvbuf, msg, NULL, NULL);
 if (result != ISC_R_SUCCESS) {
  printf(";; Couldn't verify signature: %s\n",
         isc_result_totext(result));
  validated = false;
 }
 l->tsigctx = msg->tsigctx;
 msg->tsigctx = NULL;
 if (l->querysig != NULL) {
  debug("freeing querysig buffer %p", l->querysig);
  isc_buffer_free(&l->querysig);
 }
 result = dns_message_getquerytsig(msg, mctx, &l->querysig);
 check_result(result,"dns_message_getquerytsig");
}

extrabytes = isc_buffer_remaininglength(b);

debug("after parse");
if (l->doing_xfr && l->xfr_q == NULL) {
 l->xfr_q = query;
 /*
  *
Once we are in the XFR message, increase
  * the timeout to much longer, so brief network
  * outages won't cause the XFR to abort
  */
 if (timeout != INT_MAX && query->timer != NULL) {
  unsigned int local_timeout;

  if (timeout == 0) {
   if (l->tcp_mode)
    local_timeout = TCP_TIMEOUT * 4;
```

```
    else
     local_timeout = UDP_TIMEOUT * 4;
    } else {
     if (timeout < (INT_MAX / 4))
      local_timeout = timeout * 4;
     else
      local_timeout = INT_MAX;
    }
    debug("have local timeout of %d", local_timeout);
    isc_interval_set(&l->interval, local_timeout, 0);
    result = isc_timer_reset(query->timer,
        isc_timertype_once,
        NULL,
        &l->interval,
        false);
    check_result(result, "isc_timer_reset");
   }
  }

  if (!done_process_opt) {
   if (l->cookie != NULL) {
    if (msg->opt == NULL) {
     printf(";; expected opt record in response\n");
    } else {
     process_opt(l, msg);
    }
   } else if (l->sendcookie && msg->opt
  != NULL) {
    process_opt(l, msg);
   }
  }
  if (!l->doing_xfr || l->xfr_q == query) {
   if (msg->rcode == dns_rcode_nxdomain &&
       (l->origin != NULL || l->need_search)) {
    if (!next_origin(query->lookup) || showsearch) {
     dighost_printmessage(query, msg, true);
     dighost_received(b->used, &sevent->address, query);
    }
   } else if (!l->trace && !l->ns_search_only) {
  #ifdef DIG_SIGCHASE
    if (!do_sigchase)
  #endif
     dighost_printmessage(query, msg, true);
   } else if (l->trace) {
    int nl = 0;
    int count = msg->counts[DNS_SECTION_ANSWER];

    debug("in TRACE code");
```

```
  if (!l->ns_search_only)
   dighost_printmessage(query, msg, true);

  l->rdtype = l->qrdtype;
  if (l->trace_root || (l->ns_search_only && count > 0)) {
   if (!l->trace_root)
    l->rdtype = dns_rdatatype_soa;
   nl = followup_lookup(msg, query,
         DNS_SECTION_ANSWER);
   l->trace_root = false;
  } else if (count == 0)
   nl = followup_lookup(msg, query,

    DNS_SECTION_AUTHORITY);
  if (nl == 0)
   docancel = true;
 } else {
  debug("in NSSEARCH code");

  if (l->trace_root) {
   /*
    * This is the initial NS query.
    */
   int nl;

   l->rdtype = dns_rdatatype_soa;
   nl = followup_lookup(msg, query,
         DNS_SECTION_ANSWER);
   if (nl == 0)
    docancel = true;
   l->trace_root = false;
   usesearch = false;
  } else
#ifdef DIG_SIGCHASE
   if (!do_sigchase)
#endif
    dighost_printmessage(query, msg, true);
  }
#ifdef DIG_SIGCHASE
  if (do_sigchase) {
   chase_msg = isc_mem_allocate(mctx,
         sizeof(dig_message_t));
   if (chase_msg == NULL) {
    fatal("Memory allocation failure in %s:%d",
        __FILE__, __LINE__);
   }
   ISC_LIST_INITANDAPPEND(chase_message_list, chase_msg,
          link);
```

```
  if (dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE,
          &msg_temp) != ISC_R_SUCCESS) {
   fatal("dns_message_create in %s:%d",
         __FILE__,
 __LINE__);
  }

  isc_buffer_usedregion(b, &r);
  result = isc_buffer_allocate(mctx, &buf, r.length);

  check_result(result, "isc_buffer_allocate");
  result =  isc_buffer_copyregion(buf, &r);
  check_result(result, "isc_buffer_copyregion");

  result =  dns_message_parse(msg_temp, buf, 0);

  isc_buffer_free(&buf);
  chase_msg->msg = msg_temp;

  chase_msg2 = isc_mem_allocate(mctx,
          sizeof(dig_message_t));
  if (chase_msg2 == NULL) {
   fatal("Memory allocation failure in %s:%d",
         __FILE__, __LINE__);
  }
  ISC_LIST_INITANDAPPEND(chase_message_list2, chase_msg2,
          link);
  chase_msg2->msg = msg;
 }
#endif
 }

#ifdef DIG_SIGCHASE
 if (l->sigchase && ISC_LIST_EMPTY(lookup_list)) {
  sigchase(msg_temp);
 }
#endif

 if (l->pending)
  debug("still pending.");
 if (l->doing_xfr) {
  if (query != l->xfr_q) {
   dns_message_destroy(&msg);
   isc_event_free(&event);
   query->waiting_connect = false;
   UNLOCK_LOOKUP;
   return;
  }
```

```
 if
(!docancel)
  docancel = check_for_more_data(query, msg, sevent);
 if (docancel) {
  dns_message_destroy(&msg);
  clear_query(query);
  cancel_lookup(l);
  check_next_lookup(l);
 }
 } else {

 if (msg->rcode == dns_rcode_noerror || l->origin == NULL) {

#ifdef DIG_SIGCHASE
  if (!l->sigchase)
#endif
    dighost_received(b->used, &sevent->address, query);
  }

  if (!query->lookup->ns_search_only)
   query->lookup->pending = false;
  if (!query->lookup->ns_search_only ||
      query->lookup->trace_root || docancel) {
#ifdef DIG_SIGCHASE
   if (!do_sigchase)
#endif
    dns_message_destroy(&msg);

   cancel_lookup(l);
  }
  clear_query(query);
  check_next_lookup(l);
 }
 if (msg != NULL) {
#ifdef DIG_SIGCHASE
  if (do_sigchase)
   msg = NULL;
  else
#endif
   dns_message_destroy(&msg);
 }
 isc_event_free(&event);
 UNLOCK_LOOKUP;
 return;

udp_mismatch:
 isc_buffer_invalidate(&query->recvbuf);
 isc_buffer_init(&query->recvbuf,
```

```
 query->recvspace, COMMSIZE);
 ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
 result = isc_socket_recvv(query->sock, &query->recvlist, 1,
     global_task, recv_done, query);
 check_result(result, "isc_socket_recvv");
 recvcount++;
 isc_event_free(&event);
 UNLOCK_LOOKUP;
 return;
}

/*%
* Turn a name into an address, using system-supplied routines.  This is
* used in looking up server names, etc... and needs to use system-supplied
* routines, since they may be using a non-DNS system for these lookups.
*/
isc_result_t
get_address(char *host, in_port_t myport, isc_sockaddr_t *sockaddr) {
 int count;
 isc_result_t result;
 bool is_running;

 is_running = isc_app_isrunning();
 if (is_running)
  isc_app_block();
 result = bind9_getaddresses(host, myport, sockaddr, 1, &count);
 if (is_running)
  isc_app_unblock();
 if (result != ISC_R_SUCCESS)
  return (result);

 INSIST(count == 1);

 return (ISC_R_SUCCESS);
}

int
getaddresses(dig_lookup_t
 *lookup, const char *host, isc_result_t *resultp) {
 isc_result_t result;
 isc_sockaddr_t sockaddrs[DIG_MAX_ADDRESSES];
 isc_netaddr_t netaddr;
 int count, i;
 dig_server_t *srv;
 char tmp[ISC_NETADDR_FORMATSIZE];

 result = bind9_getaddresses(host, 0, sockaddrs,
       DIG_MAX_ADDRESSES, &count);
```

```
 if (resultp != NULL)
  *resultp = result;
 if (result != ISC_R_SUCCESS) {
  if (resultp == NULL)
   fatal("couldn't get address for '%s': %s",
         host, isc_result_totext(result));
  return (0);
 }

 for (i = 0; i < count; i++) {
  isc_netaddr_fromsockaddr(&netaddr, &sockaddrs[i]);
  isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
  srv = make_server(tmp, host);
  ISC_LIST_APPEND(lookup->my_server_list, srv, link);
 }

 return (count);
}

/*%
* Initiate either a TCP or UDP lookup
*/
void
do_lookup(dig_lookup_t *lookup) {
 dig_query_t *query;

 REQUIRE(lookup != NULL);

 debug("do_lookup()");
 lookup->pending =
 true;
 query = ISC_LIST_HEAD(lookup->q);
 if (query != NULL) {
  if (lookup->tcp_mode)
   send_tcp_connect(query);
  else
   send_udp(query);
 }
}

/*%
* Start everything in action upon task startup.
*/
void
onrun_callback(isc_task_t *task, isc_event_t *event) {
 UNUSED(task);

 isc_event_free(&event);
```

```
 LOCK_LOOKUP;
 start_lookup();
 UNLOCK_LOOKUP;
}

/*%
* Make everything on the lookup queue go away.  Mainly used by the
* SIGINT handler.
*/
void
cancel_all(void) {
 dig_lookup_t *l, *n;
 dig_query_t *q, *nq;

 debug("cancel_all()");

 LOCK_LOOKUP;
 if (free_now) {
  UNLOCK_LOOKUP;
  return;
 }
 cancel_now = true;
 if (current_lookup != NULL) {
  for (q = ISC_LIST_HEAD(current_lookup->q);
       q != NULL;
       q = nq)
  {
   nq = ISC_LIST_NEXT(q, link);
   debug("canceling pending query %p, belonging to %p",
         q, current_lookup);
   if (q->sock != NULL)
    isc_socket_cancel(q->sock, NULL,
        ISC_SOCKCANCEL_ALL);
   else
    clear_query(q);
  }
  for
 (q = ISC_LIST_HEAD(current_lookup->connecting);
       q != NULL;
       q = nq)
  {
   nq = ISC_LIST_NEXT(q, clink);
   debug("canceling connecting query %p, belonging to %p",
         q, current_lookup);
   if (q->sock != NULL)
    isc_socket_cancel(q->sock, NULL,
        ISC_SOCKCANCEL_ALL);
   else
```

```
   clear_query(q);
  }
 }
 l = ISC_LIST_HEAD(lookup_list);
 while (l != NULL) {
  n = ISC_LIST_NEXT(l, link);
  ISC_LIST_DEQUEUE(lookup_list, l, link);
  try_clear_lookup(l);
  l = n;
 }
 UNLOCK_LOOKUP;
}

/*%
* Destroy all of the libs we are using, and get everything ready for a
* clean shutdown.
*/
void
destroy_libs(void) {
#ifdef DIG_SIGCHASE
 void * ptr;
 dig_message_t *chase_msg;
#endif
#ifdef WITH_IDN_SUPPORT
 isc_result_t result;
#endif

 if (keep != NULL)
  isc_socket_detach(&keep);
 debug("destroy_libs()");
 if (global_task != NULL) {
  debug("freeing task");
  isc_task_detach(&global_task);
 }
 /*

 * The taskmgr_destroy() call blocks until all events are cleared
  * from the task.
  */
 if (taskmgr != NULL) {
  debug("freeing taskmgr");
  isc_taskmgr_destroy(&taskmgr);
 }
 LOCK_LOOKUP;
 REQUIRE(sockcount == 0);
 REQUIRE(recvcount == 0);
 REQUIRE(sendcount == 0);
```

```
 INSIST(ISC_LIST_HEAD(lookup_list) == NULL);
 INSIST(current_lookup == NULL);
 INSIST(!free_now);

 free_now = true;

 lwres_conf_clear(lwctx);
 lwres_context_destroy(&lwctx);

 flush_server_list();

 clear_searchlist();

#ifdef WITH_IDN_SUPPORT
 result = dns_name_settotextfilter(NULL);
 check_result(result, "dns_name_settotextfilter");
#endif
 dns_name_destroy();

 if (commctx != NULL) {
  debug("freeing commctx");
  isc_mempool_destroy(&commctx);
 }
 if (socketmgr != NULL) {
  debug("freeing socketmgr");
  isc_socketmgr_destroy(&socketmgr);
 }
 if (timermgr != NULL) {
  debug("freeing timermgr");
  isc_timermgr_destroy(&timermgr);
 }
 if (tsigkey != NULL) {
  debug("freeing
 key %p", tsigkey);
  dns_tsigkey_detach(&tsigkey);
 }
 if (namebuf != NULL)
  isc_buffer_free(&namebuf);

 if (is_dst_up) {
  debug("destroy DST lib");
  dst_lib_destroy();
  is_dst_up = false;
 }
 if (entp != NULL) {
  debug("detach from entropy");
  isc_entropy_detach(&entp);
 }
```

```
 UNLOCK_LOOKUP;
 DESTROYLOCK(&lookup_lock);
#ifdef DIG_SIGCHASE

 debug("Destroy the messages kept for sigchase");
 /* Destroy the messages kept for sigchase */
 chase_msg = ISC_LIST_HEAD(chase_message_list);

 while (chase_msg != NULL) {
  INSIST(chase_msg->msg != NULL);
  dns_message_destroy(&(chase_msg->msg));
  ptr = chase_msg;
  chase_msg = ISC_LIST_NEXT(chase_msg, link);
  isc_mem_free(mctx, ptr);
 }

 chase_msg = ISC_LIST_HEAD(chase_message_list2);

 while (chase_msg != NULL) {
  INSIST(chase_msg->msg != NULL);
  dns_message_destroy(&(chase_msg->msg));
  ptr = chase_msg;
  chase_msg = ISC_LIST_NEXT(chase_msg, link);
  isc_mem_free(mctx, ptr);
 }
 if (dns_name_dynamic(&chase_name))
  free_name(&chase_name);
#if
 DIG_SIGCHASE_TD
 if (dns_name_dynamic(&chase_current_name))
  free_name(&chase_current_name);
 if (dns_name_dynamic(&chase_authority_name))
  free_name(&chase_authority_name);
#endif
#if DIG_SIGCHASE_BU
 if (dns_name_dynamic(&chase_signame))
  free_name(&chase_signame);
#endif

#endif
 debug("Removing log context");
 isc_log_destroy(&lctx);

 debug("Destroy memory");
 if (memdebugging != 0)
  isc_mem_stats(mctx, stderr);
 if (mctx != NULL)
```

```
 isc_mem_destroy(&mctx);
}

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
output_filter(isc_buffer_t *buffer, unsigned int used_org,
      bool absolute)
{
 char tmp1[MAXDLEN], tmp2[MAXDLEN];
 size_t fromlen, tolen;
 bool end_with_dot;
 isc_result_t result;

 /*
  * Copy contents of 'buffer' to 'tmp1', supply trailing dot
  * if 'absolute' is true, and terminate with NUL.
  */
 fromlen = isc_buffer_usedlength(buffer) - used_org;
 if (fromlen >= MAXDLEN)
  return
 (ISC_R_SUCCESS);

 memmove(tmp1, (char *)isc_buffer_base(buffer) + used_org, fromlen);
 end_with_dot = (tmp1[fromlen - 1] == '.') ? true : false;
 if (absolute && !end_with_dot) {
  fromlen++;
  if (fromlen >= MAXDLEN)
   return (ISC_R_SUCCESS);
  tmp1[fromlen - 1] = '.';
 }

 tmp1[fromlen] = '\0';

 /*
  * Convert contents of 'tmp1' to local encoding.
  */
 result = idn_ace_to_locale(tmp1, tmp2, sizeof(tmp2));
 if (result != ISC_R_SUCCESS) {
  return (ISC_R_SUCCESS);
 }
 /*
  * Copy the converted contents in 'tmp1' back to 'buffer'.
  * If we have appended trailing dot, remove it.
  */
 tolen = strlen(tmp2);
 if (absolute && !end_with_dot && tmp2[tolen - 1] == '.')
  tolen--;
```

```
 if (isc_buffer_length(buffer) < used_org + tolen)
  return (ISC_R_NOSPACE);

 isc_buffer_subtract(buffer, isc_buffer_usedlength(buffer) - used_org);
 memmove(isc_buffer_used(buffer), tmp2, tolen);
 isc_buffer_add(buffer, (unsigned int)tolen);

 return (ISC_R_SUCCESS);
}
#endif

#ifdef
 WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
static void
idnkit_check_result(idn_result_t result, const char *msg) {
 if (result != idn_success) {
  fatal("%s: %s", msg, idn_result_tostring(result));
 }
}

static void
idn_initialize(void) {
 idn_result_t result;

 /* Create configuration context. */
 result = idn_nameinit(1);
 idnkit_check_result(result, "idnkit api initialization failed");
 return (ISC_R_SUCCESS);
}

static isc_result_t
idn_locale_to_ace(const char *from, char *to, size_t tolen) {
 char utf8_textname[MXNAME];
 idn_result_t result;

 result = idn_encodename(IDN_LOCALCONV | IDN_DELIMMAP, from,
    utf8_textname, sizeof(utf8_textname));
 idnkit_check_result(result, "idnkit idn_encodename to utf8 failed");

 result = idn_encodename(idnoptions | IDN_LOCALMAP | IDN_NAMEPREP |
    IDN_IDNCONV | IDN_LENCHECK,
    utf8_textname, to, tolen);
 idnkit_check_result(result, "idnkit idn_encodename to idn failed");
 return (ISC_R_SUCCESS);
}

static
```

```
 isc_result_t
idn_ace_to_locale(const char *from, char *to, size_t tolen) {
 idn_result_t result;

 result = idn_decodename(IDN_DECODE_APP, from, to, tolen);
 if (result != idn_success) {
  debug("idnkit idn_decodename failed: %s",
        idn_result_tostring(result));
  return (ISC_R_FAILURE);
 }
 return (ISC_R_SUCCESS);
}
#endif /* WITH_IDNKIT */

#ifdef WITH_LIBIDN2
static void
idn_initialize(void) {
}

static isc_result_t
idn_locale_to_ace(const char *from, char *to, size_t tolen) {
 int res;
 char *tmp_str = NULL;

 res = idn2_to_ascii_lz(from, &tmp_str, IDN2_NONTRANSITIONAL|IDN2_NFC_INPUT);
 if (res == IDN2_DISALLOWED) {
  res = idn2_to_ascii_lz(from, &tmp_str, IDN2_TRANSITIONAL|IDN2_NFC_INPUT);
 }

 if (res == IDN2_OK) {
  /*
   * idn2_to_ascii_lz() normalizes all strings to lowerl case,
   * but we generally don't want to lowercase all input strings;
   * make sure to return the original case if the two strings
   * differ only
  in case
   */
  if (!strcasecmp(from, tmp_str)) {
   if (strlen(from) >= tolen) {
    debug("from string is too long");
    idn2_free(tmp_str);
    return ISC_R_NOSPACE;
   }
   idn2_free(tmp_str);
   (void) strlcpy(to, from, tolen);
   return ISC_R_SUCCESS;
  }
  /* check the length */
```

```
 if (strlen(tmp_str) >= tolen) {
  debug("ACE string is too long");
  idn2_free(tmp_str);
  return ISC_R_NOSPACE;
 }

 (void) strlcpy(to, tmp_str, tolen);
 idn2_free(tmp_str);
 return ISC_R_SUCCESS;
}

 fatal("'%s' is not a legal IDN name (%s), use +noidnin", from, idn2_strerror(res));
 return ISC_R_FAILURE;
}

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
idn_ace_to_locale(const char *from, char *to, size_t tolen) {
 int res;
 char *utf8_src, *tmp_str = NULL;

 /*
  * We need to:
  *
  *  1) check whether 'from' is a valid IDNA2008 name,
  *  2) if it is, output it in the current locale's character encoding.
  *
  * Unlike idn2_to_ascii_*(), idn2_to_unicode_*()
 functions are unable
  * to perform IDNA2008 validity checks.  Thus, we need to decode any
  * Punycode in 'from', check if the resulting name is a valid IDNA2008
  * name, and only once we ensure it is, output that name in the current
  * locale's character encoding.
  *
  * We could just use idn2_to_unicode_8zlz() + idn2_to_ascii_lz(), but
  * then we would not be able to universally tell invalid names and
  * character encoding errors apart (if the current locale uses ASCII
  * for character encoding, the former function would fail even for a
  * valid IDNA2008 name, as long as it contained any non-ASCII
  * character).  Thus, we need to take a longer route.
  *
  * First, convert 'from' to UTF-8, ignoring the current locale.
  */
 res = idn2_to_unicode_8z8z(from, &utf8_src, 0);
 if (res != IDN2_OK) {
  fatal("Bad ACE string '%s' (%s), use +noidnout",
        from, idn2_strerror(res));
 }
```

```
/*
 * Then, check whether decoded 'from' is a valid IDNA2008
name.
 */
res = idn2_to_ascii_8z(utf8_src, NULL, IDN2_NONTRANSITIONAL);
if (res != IDN2_OK) {
 fatal("'%s' is not a legal IDNA2008 name (%s), use +noidnout",
       from, idn2_strerror(res));
}

/*
 * Finally, try converting the decoded 'from' into the current locale's
 * character encoding.
 */
res = idn2_to_unicode_8zlz(utf8_src, &tmp_str, 0);
if (res != IDN2_OK) {
 fatal("Cannot represent '%s' in the current locale (%s), "
       "use +noidnout or a different locale",
       from, idn2_strerror(res));
}

/*
 * Free the interim conversion result.
 */
idn2_free(utf8_src);

/* check the length */
if (strlen(tmp_str) >= tolen) {
 debug("encoded ASC string is too long");
 idn2_free(tmp_str);
 return (ISC_R_FAILURE);
}

(void) strlcpy(to, tmp_str, tolen);
idn2_free(tmp_str);
return (ISC_R_SUCCESS);
}
#endif /* WITH_IDN_OUT_SUPPORT */
#endif /* WITH_LIBIDN2 */
#endif /* WITH_IDN_SUPPORT */

#ifdef DIG_SIGCHASE
void
print_type(dns_rdatatype_t
 type)
{
 isc_buffer_t * b = NULL;
```

```
 isc_result_t result;
 isc_region_t r;

 result = isc_buffer_allocate(mctx, &b, 4000);
 check_result(result, "isc_buffer_allocate");

 result = dns_rdatatype_totext(type, b);
 check_result(result, "print_type");

 isc_buffer_usedregion(b, &r);
 r.base[r.length] = '\0';

 printf("%s", r.base);

 isc_buffer_free(&b);
}

void
dump_database_section(dns_message_t *msg, int section)
{
 dns_name_t *msg_name=NULL;

 dns_rdataset_t *rdataset;

 do {
  dns_message_currentname(msg, section, &msg_name);

  for (rdataset = ISC_LIST_HEAD(msg_name->list); rdataset != NULL;
       rdataset = ISC_LIST_NEXT(rdataset, link)) {
   dns_name_print(msg_name, stdout);
   printf("\n");
   print_rdataset(msg_name, rdataset);
   printf("end\n");
  }
  msg_name = NULL;
 } while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);
}

void
dump_database(void) {
 dig_message_t * msg;

 for (msg = ISC_LIST_HEAD(chase_message_list);
  msg != NULL;
      msg = ISC_LIST_NEXT(msg, link)) {
  if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER)
      == ISC_R_SUCCESS)
   dump_database_section(msg->msg, DNS_SECTION_ANSWER);
```

```
 if (dns_message_firstname(msg->msg, DNS_SECTION_AUTHORITY)
     == ISC_R_SUCCESS)
  dump_database_section(msg->msg, DNS_SECTION_AUTHORITY);

 if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL)
     == ISC_R_SUCCESS)
  dump_database_section(msg->msg, DNS_SECTION_ADDITIONAL);
 }
}


dns_rdataset_t *
search_type(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers) {
 dns_rdataset_t *rdataset;
 dns_rdata_sig_t siginfo;
 dns_rdata_t sigrdata = DNS_RDATA_INIT;
 isc_result_t result;

 for (rdataset = ISC_LIST_HEAD(name->list); rdataset != NULL;
      rdataset = ISC_LIST_NEXT(rdataset, link)) {
  if (type == dns_rdatatype_any) {
   if (rdataset->type != dns_rdatatype_rrsig)
    return (rdataset);
  } else if ((type == dns_rdatatype_rrsig)
 &&
      (rdataset->type == dns_rdatatype_rrsig)) {
   result = dns_rdataset_first(rdataset);
   check_result(result, "empty rdataset");
   dns_rdataset_current(rdataset, &sigrdata);
   result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
   check_result(result, "sigrdata tostruct siginfo");

   if ((siginfo.covered == covers) ||
       (covers == dns_rdatatype_any)) {
    dns_rdata_reset(&sigrdata);
    dns_rdata_freestruct(&siginfo);
    return (rdataset);
   }
   dns_rdata_reset(&sigrdata);
   dns_rdata_freestruct(&siginfo);
  } else if (rdataset->type == type)
   return (rdataset);
 }
 return (NULL);
}

dns_rdataset_t *
```

```
chase_scanname_section(dns_message_t *msg, dns_name_t *name,
        dns_rdatatype_t type, dns_rdatatype_t covers,
        int section)
{
 dns_rdataset_t *rdataset;
 dns_name_t *msg_name = NULL;

 if (msg->counts[section] == 0)
  return (NULL);

 do {
  dns_message_currentname(msg, section, &msg_name);
  if (dns_name_compare(msg_name,
 name) == 0) {
   rdataset = search_type(msg_name, type, covers);
   if (rdataset != NULL)
    return (rdataset);
  }
  msg_name = NULL;
 } while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);

 return (NULL);
}


dns_rdataset_t *
chase_scanname(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers)
{
 dns_rdataset_t *rdataset = NULL;
 dig_message_t * msg;

 for (msg = ISC_LIST_HEAD(chase_message_list2);  msg != NULL;
      msg = ISC_LIST_NEXT(msg, link)) {
  if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER)
      == ISC_R_SUCCESS)
  {
   rdataset = chase_scanname_section(msg->msg, name,
         type, covers,
         DNS_SECTION_ANSWER);
   if (rdataset != NULL)
    return (rdataset);
  }
  if (dns_message_firstname(msg->msg, DNS_SECTION_AUTHORITY)
      == ISC_R_SUCCESS)
  {
   rdataset =
    chase_scanname_section(msg->msg, name,
           type, covers,
```

```
            DNS_SECTION_AUTHORITY);
  if (rdataset
!= NULL)
   return (rdataset);
 }
 if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL)
     == ISC_R_SUCCESS)
 {
  rdataset =
   chase_scanname_section(msg->msg, name, type,
            covers,
            DNS_SECTION_ADDITIONAL);
  if (rdataset != NULL)
   return (rdataset);
 }
}

return (NULL);
}

dns_rdataset_t *
sigchase_scanname(dns_rdatatype_t type, dns_rdatatype_t covers,
    bool * lookedup, dns_name_t *rdata_name)
{
 dig_lookup_t *lookup;
 isc_buffer_t *b = NULL;
 isc_region_t r;
 isc_result_t result;
 dns_rdataset_t * temp;
 dns_rdatatype_t querytype;

 temp = chase_scanname(rdata_name, type, covers);
 if (temp != NULL)
  return (temp);

 if (*lookedup == true)
  return (NULL);

 lookup = clone_lookup(current_lookup, true);
 lookup->trace_root = false;
 lookup->new_search = true;

 result = isc_buffer_allocate(mctx, &b, BUFSIZE);
 check_result(result, "isc_buffer_allocate");
 result = dns_name_totext(rdata_name,
 false, b);
 check_result(result, "dns_name_totext");
 isc_buffer_usedregion(b, &r);
```

```
r.base[r.length] = '\0';
strlcpy(lookup->textname, (char*)r.base, sizeof(lookup->textname));
isc_buffer_free(&b);

if (type ==  dns_rdatatype_rrsig)
 querytype = covers;
else
 querytype = type;

if (querytype == 0 || querytype == 255) {
 printf("Error in the queried type: %d\n", querytype);
 return (NULL);
 }

 lookup->rdtype = querytype;
 lookup->rdtypeset = true;
 lookup->qrdtype = querytype;
 *lookedup = true;

 ISC_LIST_APPEND(lookup_list, lookup, link);
 printf("\n\nLaunch a query to find a RRset of type ");
 print_type(type);
 printf(" for zone: %s\n", lookup->textname);
 return (NULL);
}

isc_result_t
insert_trustedkey(void *arg, dns_name_t *name, dns_rdataset_t *rdataset)
{
 isc_result_t result;
 dst_key_t *dstkey;

 UNUSED(arg);

 if (rdataset == NULL || rdataset->type != dns_rdatatype_dnskey)
  return (ISC_R_SUCCESS);

 for (result = dns_rdataset_first(rdataset);

     result == ISC_R_SUCCESS;
      result = dns_rdataset_next(rdataset)) {
  dns_rdata_t rdata = DNS_RDATA_INIT;
  isc_buffer_t b;

  dns_rdataset_current(rdataset, &rdata);
  isc_buffer_init(&b, rdata.data, rdata.length);
  isc_buffer_add(&b, rdata.length);
  if (tk_list.nb_tk >= MAX_TRUSTED_KEY)
```

```
  return (ISC_R_SUCCESS);
 dstkey = NULL;
 result = dst_key_fromdns(name, rdata.rdclass, &b, mctx, &dstkey);
 if (result != ISC_R_SUCCESS)
  continue;
 tk_list.key[tk_list.nb_tk++] = dstkey;
 }
 return (ISC_R_SUCCESS);
}

void
clean_trustedkey()
{
 int i = 0;

 for (i= 0; i < MAX_TRUSTED_KEY; i++) {
  if (tk_list.key[i] != NULL) {
   dst_key_free(&tk_list.key[i]);
   tk_list.key[i] = NULL;
  } else
   break;
 }
 tk_list.nb_tk = 0;
 return;
}

char alphnum[] =
 "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";

isc_result_t
removetmpkey(const char *file)
{
 char *tempnamekey = NULL;
 int tempnamekeylen;
 isc_result_t
 result;

 tempnamekeylen = strlen(file)+10;

 tempnamekey = isc_mem_allocate(mctx, tempnamekeylen);
 if (tempnamekey == NULL)
  return (ISC_R_NOMEMORY);

 memset(tempnamekey, 0, tempnamekeylen);

 strcat(tempnamekey, file);
 strcat(tempnamekey,".key");
 isc_file_remove(tempnamekey);
```

```
 result = isc_file_remove(tempnamekey);
 isc_mem_free(mctx, tempnamekey);
 return (result);
}

isc_result_t
get_trusted_key(void) {
 isc_result_t result;
 const char *filename = NULL;
 dns_rdatacallbacks_t callbacks;

 result = isc_file_exists(trustedkey);
 if (result !=  true) {
  result = isc_file_exists("/etc/trusted-key.key");
  if (result !=  true) {
   result = isc_file_exists("./trusted-key.key");
   if (result !=  true)
    return (ISC_R_FAILURE);
   else
    filename = "./trusted-key.key";
  } else
   filename = "/etc/trusted-key.key";
 } else
  filename = trustedkey;

 if (filename == NULL) {
  printf("No trusted key\n");
  return (ISC_R_FAILURE);
 }

 dns_rdatacallbacks_init_stdio(&callbacks);
 callbacks.add
 = insert_trustedkey;
 return (dns_master_loadfile(filename, dns_rootname, dns_rootname,
        current_lookup->rdclass, DNS_MASTER_NOTTL,
        &callbacks, mctx));
}


static void
nameFromString(const char *str, dns_name_t *p_ret) {
 size_t len = strlen(str);
 isc_result_t result;
 isc_buffer_t buffer;
 dns_fixedname_t fixedname;

 REQUIRE(p_ret != NULL);
```

```
 REQUIRE(str != NULL);

 isc_buffer_constinit(&buffer, str, len);
 isc_buffer_add(&buffer, len);

 dns_fixedname_init(&fixedname);
 result = dns_name_fromtext(dns_fixedname_name(&fixedname), &buffer,
       dns_rootname, DNS_NAME_DOWNCASE, NULL);
 check_result(result, "nameFromString");

 if (dns_name_dynamic(p_ret))
  free_name(p_ret);

 result = dns_name_dup(dns_fixedname_name(&fixedname), mctx, p_ret);
 check_result(result, "nameFromString");
}


#if DIG_SIGCHASE_TD
isc_result_t
prepare_lookup(dns_name_t *name)
{
 isc_result_t
 result;
 dig_lookup_t *lookup = NULL;
 dig_server_t *s;
 void *ptr;

 lookup = clone_lookup(current_lookup, true);
 lookup->trace_root = false;
 lookup->new_search = true;
 lookup->trace_root_sigchase = false;

 strlcpy(lookup->textname, lookup->textnamesigchase, MXNAME);

 lookup->rdtype = lookup->rdtype_sigchase;
 lookup->rdtypeset = true;
 lookup->qrdtype = lookup->qrdtype_sigchase;

 s = ISC_LIST_HEAD(lookup->my_server_list);
 while (s != NULL) {
  debug("freeing server %p belonging to %p",
        s, lookup);
  ptr = s;
  s = ISC_LIST_NEXT(s, link);
  ISC_LIST_DEQUEUE(lookup->my_server_list,
     (dig_server_t *)ptr, link);
  isc_mem_free(mctx, ptr);
```

```
 }


 for (result = dns_rdataset_first(chase_nsrdataset);
      result == ISC_R_SUCCESS;
      result = dns_rdataset_next(chase_nsrdataset)) {
  char namestr[DNS_NAME_FORMATSIZE];
  dns_rdata_ns_t ns;
  dns_rdata_t rdata = DNS_RDATA_INIT;
  dig_server_t * srv = NULL;
#define __FOLLOW_GLUE__
#ifdef
 __FOLLOW_GLUE__
  isc_buffer_t *b = NULL;
  isc_region_t r;
  dns_rdataset_t *rdataset = NULL;
  bool t = true;
#endif

  memset(namestr, 0, DNS_NAME_FORMATSIZE);

  dns_rdataset_current(chase_nsrdataset, &rdata);

  result = dns_rdata_tostruct(&rdata, &ns, NULL);
  check_result(result, "dns_rdata_tostruct");

#ifdef __FOLLOW_GLUE__

  result = advanced_rrsearch(&rdataset, &ns.name,
        dns_rdatatype_aaaa,
        dns_rdatatype_any, &t);
  if (result == ISC_R_SUCCESS) {
   for (result = dns_rdataset_first(rdataset);
        result == ISC_R_SUCCESS;
        result = dns_rdataset_next(rdataset)) {
    dns_rdata_t aaaa = DNS_RDATA_INIT;
    dns_rdataset_current(rdataset, &aaaa);

    result = isc_buffer_allocate(mctx, &b, 80);
    check_result(result, "isc_buffer_allocate");

    dns_rdata_totext(&aaaa, &ns.name, b);
    isc_buffer_usedregion(b, &r);
    r.base[r.length] = '\0';
    strlcpy(namestr, (char*)r.base,
     DNS_NAME_FORMATSIZE);
    isc_buffer_free(&b);
    dns_rdata_reset(&aaaa);
```

```
   srv
 = make_server(namestr, namestr);

   ISC_LIST_APPEND(lookup->my_server_list,
     srv, link);
  }
 }

 rdataset = NULL;
 result = advanced_rrsearch(&rdataset, &ns.name, dns_rdatatype_a,
      dns_rdatatype_any, &t);
 if (result == ISC_R_SUCCESS) {
  for (result = dns_rdataset_first(rdataset);
      result == ISC_R_SUCCESS;
      result = dns_rdataset_next(rdataset)) {
   dns_rdata_t a = DNS_RDATA_INIT;
   dns_rdataset_current(rdataset, &a);

   result = isc_buffer_allocate(mctx, &b, 80);
   check_result(result, "isc_buffer_allocate");

   dns_rdata_totext(&a, &ns.name, b);
   isc_buffer_usedregion(b, &r);
   r.base[r.length] = '\0';
   strlcpy(namestr, (char*)r.base,
    DNS_NAME_FORMATSIZE);
   isc_buffer_free(&b);
   dns_rdata_reset(&a);
   printf("ns name: %s\n", namestr);


   srv = make_server(namestr, namestr);

   ISC_LIST_APPEND(lookup->my_server_list,
     srv,
 link);
   }
  }
#else

  dns_name_format(&ns.name, namestr, sizeof(namestr));
  printf("ns name: ");
  dns_name_print(&ns.name, stdout);
  printf("\n");
  srv = make_server(namestr, namestr);
```

```
  ISC_LIST_APPEND(lookup->my_server_list, srv, link);

#endif
  dns_rdata_freestruct(&ns);
  dns_rdata_reset(&rdata);

 }

 ISC_LIST_APPEND(lookup_list, lookup, link);
 printf("\nLaunch a query to find a RRset of type ");
 print_type(lookup->rdtype);
 printf(" for zone: %s", lookup->textname);
 printf(" with nameservers:");
 printf("\n");
 print_rdataset(name, chase_nsrdataset);
 return (ISC_R_SUCCESS);
}


isc_result_t
child_of_zone(dns_name_t * name, dns_name_t * zone_name,
       dns_name_t * child_name)
{
 dns_namereln_t name_reln;
 int orderp;
 unsigned int nlabelsp;

 name_reln = dns_name_fullcompare(name, zone_name, &orderp, &nlabelsp);
 if (name_reln != dns_namereln_subdomain ||
     dns_name_countlabels(name) < dns_name_countlabels(zone_name)
 + 1) {
  printf("\n;; ERROR : ");
  dns_name_print(name, stdout);
  printf(" is not a subdomain of: ");
  dns_name_print(zone_name, stdout);
  printf(" FAILED\n\n");
  return (ISC_R_FAILURE);
 }

 dns_name_getlabelsequence(name,
      dns_name_countlabels(name) -
      dns_name_countlabels(zone_name) -1,
      dns_name_countlabels(zone_name) +1,
      child_name);
 return (ISC_R_SUCCESS);
}

isc_result_t
```

```
grandfather_pb_test(dns_name_t *zone_name, dns_rdataset_t  *sigrdataset) {
 dns_rdata_sig_t siginfo;
 dns_rdataset_t mysigrdataset;
 isc_result_t result;

 dns_rdataset_init(&mysigrdataset);
 dns_rdataset_clone(sigrdataset, &mysigrdataset);

 result = dns_rdataset_first(&mysigrdataset);
 check_result(result, "empty RRSIG dataset");

 do {
  dns_rdata_t sigrdata = DNS_RDATA_INIT;

  dns_rdataset_current(&mysigrdataset, &sigrdata);

  result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
  check_result(result, "sigrdata tostruct siginfo");

  if
 (dns_name_compare(&siginfo.signer, zone_name) == 0) {
   result = ISC_R_SUCCESS;
   goto cleanup;
  }
 } while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);

 result = ISC_R_FAILURE;
cleanup:
 dns_rdataset_disassociate(&mysigrdataset);

 return (result);
}


isc_result_t
initialization(dns_name_t *name)
{
 isc_result_t   result;
 bool t = true;

 chase_nsrdataset = NULL;
 result = advanced_rrsearch(&chase_nsrdataset, name, dns_rdatatype_ns,
       dns_rdatatype_any, &t);
 if (result != ISC_R_SUCCESS) {
  printf("\n;; NS RRset is missing to continue validation:"
         " FAILED\n\n");
 return (ISC_R_FAILURE);
 }
```

```
 INSIST(chase_nsrdataset != NULL);
 prepare_lookup(name);

 dup_name(name, &chase_current_name);

 return (ISC_R_SUCCESS);
}
#endif

void
print_rdataset(dns_name_t *name, dns_rdataset_t *rdataset)
{
 isc_buffer_t *b = NULL;
 isc_result_t result;
 isc_region_t r;

 result = isc_buffer_allocate(mctx, &b, 9000);
 check_result(result,
 "isc_buffer_allocate");

 dighost_printrdataset(name, rdataset, b);

 isc_buffer_usedregion(b, &r);
 r.base[r.length] = '\0';


 printf("%s\n", r.base);

 isc_buffer_free(&b);
}


void
dup_name(dns_name_t *source, dns_name_t *target) {
 isc_result_t result;

 if (dns_name_dynamic(target))
  free_name(target);
 result = dns_name_dup(source, mctx, target);
 check_result(result, "dns_name_dup");
}

void
free_name(dns_name_t *name) {
 dns_name_free(name, mctx);
 dns_name_init(name, NULL);
}
```

```
/*
*
* take a DNSKEY RRset and the RRSIG RRset corresponding in parameter
* return ISC_R_SUCCESS if the DNSKEY RRset contains a trusted_key
*    and the RRset is valid
* return ISC_R_NOTFOUND if not contains trusted key
  or if the RRset isn't valid
* return ISC_R_FAILURE if problem
*
*/
isc_result_t
contains_trusted_key(dns_name_t *name, dns_rdataset_t *rdataset,
      dns_rdataset_t *sigrdataset)
{
 dns_rdataset_t myrdataset;
 dst_key_t *dnsseckey
 = NULL;
 int i;
 isc_result_t result;

 if (name == NULL || rdataset == NULL)
  return (ISC_R_FAILURE);

 dns_rdataset_init(&myrdataset);
 dns_rdataset_clone(rdataset, &myrdataset);

 result = dns_rdataset_first(&myrdataset);
 check_result(result, "empty rdataset");

 do {
  dns_rdata_t rdata = DNS_RDATA_INIT;

  dns_rdataset_current(&myrdataset, &rdata);
  INSIST(rdata.type == dns_rdatatype_dnskey);

  result = dns_dnssec_keyfromrdata(name, &rdata,
      mctx, &dnsseckey);
  check_result(result, "dns_dnssec_keyfromrdata");

  for (i = 0; i < tk_list.nb_tk; i++) {
   if (dst_key_compare(tk_list.key[i], dnsseckey)
      == true) {
    dns_rdata_reset(&rdata);

    printf(";; Ok, find a Trusted Key in the "
         "DNSKEY RRset: %d\n",
         dst_key_id(dnsseckey));
    result = sigchase_verify_sig_key(name, rdataset,
```

```
        dnsseckey,
        sigrdataset);
    if (result == ISC_R_SUCCESS)
     goto cleanup;
   }
  }
  dst_key_free(&dnsseckey);
 }
 while (dns_rdataset_next(&myrdataset) == ISC_R_SUCCESS);

 result = ISC_R_NOTFOUND;

cleanup:
 if (dnsseckey != NULL)
  dst_key_free(&dnsseckey);
 dns_rdataset_disassociate(&myrdataset);

 return (result);
}

isc_result_t
sigchase_verify_sig(dns_name_t *name, dns_rdataset_t *rdataset,
      dns_rdataset_t *keyrdataset,
      dns_rdataset_t *sigrdataset)
{
 dns_rdataset_t mykeyrdataset;
 dst_key_t *dnsseckey = NULL;
 isc_result_t result;

 dns_rdataset_init(&mykeyrdataset);
 dns_rdataset_clone(keyrdataset, &mykeyrdataset);

 result = dns_rdataset_first(&mykeyrdataset);
 check_result(result, "empty DNSKEY dataset");

 do {
  dns_rdata_t keyrdata = DNS_RDATA_INIT;

  dns_rdataset_current(&mykeyrdataset, &keyrdata);
  INSIST(keyrdata.type == dns_rdatatype_dnskey);

  result = dns_dnssec_keyfromrdata(name, &keyrdata,
       mctx, &dnsseckey);
  check_result(result, "dns_dnssec_keyfromrdata");

  result = sigchase_verify_sig_key(name,
 rdataset, dnsseckey,
       sigrdataset);
```

```
 if (result == ISC_R_SUCCESS)
  goto cleanup;
 dst_key_free(&dnsseckey);
 } while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);

 result = ISC_R_NOTFOUND;

cleanup:
 if (dnsseckey != NULL)
  dst_key_free(&dnsseckey);
 dns_rdataset_disassociate(&mykeyrdataset);

 return (result);
}

isc_result_t
sigchase_verify_sig_key(dns_name_t *name, dns_rdataset_t *rdataset,
   dst_key_t *dnsseckey, dns_rdataset_t *sigrdataset)
{
 dns_rdata_sig_t siginfo;
 dns_rdataset_t myrdataset;
 dns_rdataset_t mysigrdataset;
 isc_result_t result;

 dns_rdataset_init(&myrdataset);
 dns_rdataset_clone(rdataset, &myrdataset);
 dns_rdataset_init(&mysigrdataset);
 dns_rdataset_clone(sigrdataset, &mysigrdataset);

 result = dns_rdataset_first(&mysigrdataset);
 check_result(result, "empty RRSIG dataset");

 do {
  dns_rdata_t sigrdata = DNS_RDATA_INIT;

  dns_rdataset_current(&mysigrdataset, &sigrdata);

  result = dns_rdata_tostruct(&sigrdata,
 &siginfo, NULL);
  check_result(result, "sigrdata tostruct siginfo");

  /*
   * Test if the id of the DNSKEY is
   * the id of the DNSKEY signer's
   */
  if (siginfo.keyid == dst_key_id(dnsseckey)) {

   result = dns_rdataset_first(&myrdataset);
```

```
  check_result(result, "empty DS dataset");

  result = dns_dnssec_verify(name, &myrdataset, dnsseckey,
       false, mctx, &sigrdata);

  printf(";; VERIFYING ");
  print_type(rdataset->type);
  printf(" RRset for ");
  dns_name_print(name, stdout);
  printf(" with DNSKEY:%d: %s\n", dst_key_id(dnsseckey),
        isc_result_totext(result));

  if (result == ISC_R_SUCCESS)
   goto cleanup;
  }
 } while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);

 result = ISC_R_NOTFOUND;

cleanup:
 dns_rdataset_disassociate(&myrdataset);
 dns_rdataset_disassociate(&mysigrdataset);

 return (result);
}


isc_result_t
sigchase_verify_ds(dns_name_t *name, dns_rdataset_t *keyrdataset,

   dns_rdataset_t *dsrdataset)
{
 dns_rdata_ds_t dsinfo;
 dns_rdataset_t mydsrdataset;
 dns_rdataset_t mykeyrdataset;
 dst_key_t *dnsseckey = NULL;
 isc_result_t result;
 unsigned char dsbuf[DNS_DS_BUFFERSIZE];

 dns_rdataset_init(&mydsrdataset);
 dns_rdataset_clone(dsrdataset, &mydsrdataset);
 dns_rdataset_init(&mykeyrdataset);
 dns_rdataset_clone(keyrdataset, &mykeyrdataset);

 result = dns_rdataset_first(&mydsrdataset);
 check_result(result, "empty DSset dataset");
 do {
  dns_rdata_t dsrdata = DNS_RDATA_INIT;
```

```
 dns_rdataset_current(&mydsrdataset, &dsrdata);

 result = dns_rdata_tostruct(&dsrdata, &dsinfo, NULL);
 check_result(result, "dns_rdata_tostruct for DS");

 result = dns_rdataset_first(&mykeyrdataset);
 check_result(result, "empty KEY dataset");

 do {
  dns_rdata_t keyrdata = DNS_RDATA_INIT;

  dns_rdataset_current(&mykeyrdataset, &keyrdata);
  INSIST(keyrdata.type == dns_rdatatype_dnskey);

  result = dns_dnssec_keyfromrdata(name,
&keyrdata,
       mctx, &dnsseckey);
  check_result(result, "dns_dnssec_keyfromrdata");

  /*
   * Test if the id of the DNSKEY is the
   * id of DNSKEY referenced by the DS
   */
  if (dsinfo.key_tag == dst_key_id(dnsseckey)) {
   dns_rdata_t newdsrdata = DNS_RDATA_INIT;

   result = dns_ds_buildrdata(name, &keyrdata,
        dsinfo.digest_type,
        dsbuf, &newdsrdata);
   dns_rdata_freestruct(&dsinfo);

   if (result != ISC_R_SUCCESS) {
    printf("Oops: impossible to build"
          " new DS rdata\n");
    goto cleanup;
   }


   if (dns_rdata_compare(&dsrdata,
         &newdsrdata) == 0) {
    printf(";; OK a DS valids a DNSKEY"
          " in the RRset\n");
    printf(";; Now verify that this"
          " DNSKEY validates the "
          "DNSKEY RRset\n");

    result = sigchase_verify_sig_key(name,
```

```
        keyrdataset,
        dnsseckey,
        chase_sigkeyrdataset);
     if (result ==  ISC_R_SUCCESS)
      goto
 cleanup;
    } else {
     printf(";; This DS is NOT the DS for"
           " the chasing KEY: FAILED\n");
    }
   }
   dst_key_free(&dnsseckey);
  } while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);
 } while (dns_rdataset_next(&mydsrdataset) == ISC_R_SUCCESS);

 result = ISC_R_NOTFOUND;

cleanup:
 if (dnsseckey != NULL)
  dst_key_free(&dnsseckey);
 dns_rdataset_disassociate(&mydsrdataset);
 dns_rdataset_disassociate(&mykeyrdataset);

 return (result);
}

/*
*
* take a pointer on a rdataset in parameter and try to resolv it.
* the searched rrset is a rrset on 'name' with type 'type'
* (and if the type is a rrsig the signature cover 'covers').
* the lookedup is to known if you have already done the query on the net.
* ISC_R_SUCCESS: if we found the rrset
* ISC_R_NOTFOUND: we do not found the rrset in cache
* and we do a query on the net
* ISC_R_FAILURE: rrset not found
*/
isc_result_t
advanced_rrsearch(dns_rdataset_t
 **rdataset, dns_name_t *name,
    dns_rdatatype_t type, dns_rdatatype_t covers,
    bool *lookedup)
{
 bool  tmplookedup;

 INSIST(rdataset != NULL);

 if (*rdataset != NULL)
```

```
 return (ISC_R_SUCCESS);

 tmplookedup = *lookedup;
 if ((*rdataset = sigchase_scanname(type, covers,
       lookedup, name)) == NULL) {
  if (tmplookedup)
   return (ISC_R_FAILURE);
  return (ISC_R_NOTFOUND);
 }
 *lookedup = false;
 return (ISC_R_SUCCESS);
}



#if DIG_SIGCHASE_TD
void
sigchase_td(dns_message_t *msg)
{
 isc_result_t result;
 dns_name_t *name = NULL;
 bool have_answer = false;
 bool t = true;

 if (msg->rcode != dns_rcode_noerror &&
     msg->rcode != dns_rcode_nxdomain) {
  char buf[20];
  isc_buffer_t b;

  isc_buffer_init(&b, buf, sizeof(buf));
  result = dns_rcode_totext(msg->rcode, &b);
  check_result(result, "dns_rcode_totext failed");
  printf("error response code %.*s\n",
         (int)isc_buffer_usedlength(&b), buf);
  error_message = msg;
  return;
 }

 if
 ((result = dns_message_firstname(msg, DNS_SECTION_ANSWER))
     == ISC_R_SUCCESS) {
  dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
  if (current_lookup->trace_root_sigchase) {
   initialization(name);
   return;
  }
  have_answer = true;
 } else {
```

```
 if (!current_lookup->trace_root_sigchase) {
  result = dns_message_firstname(msg,
           DNS_SECTION_AUTHORITY);
  if (result != ISC_R_SUCCESS) {
   printf("no answer or authority section\n");
   error_message = msg;
   return;
  }
  dns_message_currentname(msg, DNS_SECTION_AUTHORITY,
    &name);
  chase_nsrdataset
   = chase_scanname_section(msg, name,
       dns_rdatatype_ns,
       dns_rdatatype_any,
       DNS_SECTION_AUTHORITY);
  dup_name(name, &chase_authority_name);
  if (chase_nsrdataset != NULL) {
   have_delegation_ns = true;
   printf("no response but there is a delegation"
          " in authority section: ");
   dns_name_print(name, stdout);
   printf("\n");
  }
 else {
   printf("no response and no delegation in "
          "authority section but a reference"
          " to: ");
   dns_name_print(name, stdout);
   printf("\n");
   error_message = msg;
  }
 } else {
  printf(";; NO ANSWERS: %s\n",
         isc_result_totext(result));
  free_name(&chase_name);
  clean_trustedkey();
  return;
 }
}


if (have_answer) {
 chase_rdataset
  = chase_scanname_section(msg, &chase_name,
      current_lookup
      ->rdtype_sigchase,
      dns_rdatatype_any,
      DNS_SECTION_ANSWER);
```

```
 if (chase_rdataset != NULL)
  have_response = true;
}

result = advanced_rrsearch(&chase_keyrdataset,
      &chase_current_name,
      dns_rdatatype_dnskey,
      dns_rdatatype_any,
      &chase_keylookedup);
if (result == ISC_R_FAILURE) {
 printf("\n;; DNSKEY is missing to continue validation:"
        " FAILED\n\n");
 goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
 return;
INSIST(chase_keyrdataset
!= NULL);
printf("\n;; DNSKEYset:\n");
print_rdataset(&chase_current_name , chase_keyrdataset);


result = advanced_rrsearch(&chase_sigkeyrdataset,
      &chase_current_name,
      dns_rdatatype_rrsig,
      dns_rdatatype_dnskey,
      &chase_sigkeylookedup);
if (result == ISC_R_FAILURE) {
 printf("\n;; RRSIG of DNSKEY is missing to continue validation:"
        " FAILED\n\n");
 goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
 return;
INSIST(chase_sigkeyrdataset != NULL);
printf("\n;; RRSIG of the DNSKEYset:\n");
print_rdataset(&chase_current_name , chase_sigkeyrdataset);


if (!chase_dslookedup && !chase_nslookedup) {
 if (!delegation_follow) {
  result = contains_trusted_key(&chase_current_name,
           chase_keyrdataset,
           chase_sigkeyrdataset);
 } else {
  INSIST(chase_dsrdataset != NULL);
  INSIST(chase_sigdsrdataset != NULL);
  result = sigchase_verify_ds(&chase_current_name,
```

```
  chase_keyrdataset,
        chase_dsrdataset);
 }

 if (result != ISC_R_SUCCESS) {
  printf("\n;; chain of trust can't be validated:"
        " FAILED\n\n");
  goto cleanandgo;
 } else {
  chase_dsrdataset = NULL;
  chase_sigdsrdataset = NULL;
 }
}

if (have_response || (!have_delegation_ns && !have_response)) {
 /* test if it's a grand father case */

 if (have_response) {
  result = advanced_rrsearch(&chase_sigrdataset,
        &chase_name,
        dns_rdatatype_rrsig,
        current_lookup
        ->rdtype_sigchase,
        &t);
  if (result == ISC_R_FAILURE) {
   printf("\n;; RRset is missing to continue"
         " validation SHOULD NOT APPEND:"
         " FAILED\n\n");
   goto cleanandgo;
  }

 } else {
  result = advanced_rrsearch(&chase_sigrdataset,
        &chase_authority_name,
        dns_rdatatype_rrsig,
        dns_rdatatype_any,
        &t);
  if (result == ISC_R_FAILURE) {
   printf("\n;; RRSIG
is missing  to continue"
         " validation SHOULD NOT APPEND:"
         " FAILED\n\n");
   goto cleanandgo;
  }
 }
 result =  grandfather_pb_test(&chase_current_name,
         chase_sigrdataset);
```

```
 if (result != ISC_R_SUCCESS) {
  dns_name_t tmp_name;

  printf("\n;; We are in a Grand Father Problem:"
         " See 2.2.1 in RFC 3658\n");
  chase_rdataset = NULL;
  chase_sigrdataset = NULL;
  have_response = false;
  have_delegation_ns = false;

  dns_name_init(&tmp_name, NULL);
  result = child_of_zone(&chase_name, &chase_current_name,
           &tmp_name);
  if (result != ISC_R_SUCCESS)
   goto cleanandgo;
  if (dns_name_dynamic(&chase_authority_name))
   free_name(&chase_authority_name);
  dup_name(&tmp_name, &chase_authority_name);
  printf(";; and we try to continue chain of trust"
         " validation of the zone: ");
  dns_name_print(&chase_authority_name, stdout);
  printf("\n");
  have_delegation_ns = true;
 }
else {
  if (have_response)
   goto finalstep;
  else
   chase_sigrdataset = NULL;
 }
}

if (have_delegation_ns) {
 chase_nsrdataset = NULL;
 result = advanced_rrsearch(&chase_nsrdataset,
       &chase_authority_name,
       dns_rdatatype_ns,
       dns_rdatatype_any,
       &chase_nslookedup);
 if (result == ISC_R_FAILURE) {
  printf("\n;;NSset is missing to continue validation:"
         " FAILED\n\n");
  goto cleanandgo;
 }
 if (result == ISC_R_NOTFOUND) {
  return;
 }
 INSIST(chase_nsrdataset != NULL);
```

```
result = advanced_rrsearch(&chase_dsrdataset,
      &chase_authority_name,
      dns_rdatatype_ds,
      dns_rdatatype_any,
      &chase_dslookedup);
if (result == ISC_R_FAILURE) {
 printf("\n;; DSset is missing to continue validation:"
       " FAILED\n\n");
 goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
 return;
INSIST(chase_dsrdataset != NULL);
printf("\n;; DSset:\n");
print_rdataset(&chase_authority_name
, chase_dsrdataset);

result = advanced_rrsearch(&chase_sigdsrdataset,
      &chase_authority_name,
      dns_rdatatype_rrsig,
      dns_rdatatype_ds,
      &t);
if (result != ISC_R_SUCCESS) {
 printf("\n;; DSset is missing to continue validation:"
       " FAILED\n\n");
 goto cleanandgo;
}
printf("\n;; RRSIGset of DSset\n");
print_rdataset(&chase_authority_name, chase_sigdsrdataset);
INSIST(chase_sigdsrdataset != NULL);

result = sigchase_verify_sig(&chase_authority_name,
       chase_dsrdataset,
       chase_keyrdataset,
       chase_sigdsrdataset);
if (result != ISC_R_SUCCESS) {
 printf("\n;; Impossible to verify the DSset:"
       " FAILED\n\n");
 goto cleanandgo;
}
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;


prepare_lookup(&chase_authority_name);

have_response = false;
```

```
 have_delegation_ns = false;
 delegation_follow = true;
 error_message = NULL;
 dup_name(&chase_authority_name,
&chase_current_name);
 free_name(&chase_authority_name);
 return;
}


if (error_message != NULL) {
 dns_rdataset_t *rdataset;
 dns_rdataset_t *sigrdataset;
 dns_name_t rdata_name;
 isc_result_t ret = ISC_R_FAILURE;

 dns_name_init(&rdata_name, NULL);
 result = prove_nx(error_message, &chase_name,
    current_lookup->rdclass_sigchase,
    current_lookup->rdtype_sigchase, &rdata_name,
    &rdataset, &sigrdataset);
 if (rdataset == NULL || sigrdataset == NULL ||
    dns_name_countlabels(&rdata_name) == 0) {
  printf("\n;; Impossible to verify the non-existence,"
        " the NSEC RRset can't be validated:"
        " FAILED\n\n");
  goto cleanandgo;
 }
 ret = sigchase_verify_sig(&rdata_name, rdataset,
     chase_keyrdataset,
     sigrdataset);
 if (ret != ISC_R_SUCCESS) {
  free_name(&rdata_name);
  printf("\n;; Impossible to verify the NSEC RR to prove"
        " the non-existence : FAILED\n\n");
  goto
cleanandgo;
 }
 free_name(&rdata_name);
 if (result != ISC_R_SUCCESS) {
  printf("\n;; Impossible to verify the non-existence:"
        " FAILED\n\n");
  goto cleanandgo;
 } else {
  printf("\n;; OK the query doesn't have response but"
        " we have validate this fact : SUCCESS\n\n");
  goto cleanandgo;
 }
```

```
 }

cleanandgo:
 printf(";; cleanandgo \n");
 if (dns_name_dynamic(&chase_current_name))
  free_name(&chase_current_name);
 if (dns_name_dynamic(&chase_authority_name))
  free_name(&chase_authority_name);
 clean_trustedkey();
 return;

 finalstep :
  result = advanced_rrsearch(&chase_rdataset, &chase_name,
        current_lookup->rdtype_sigchase,
        dns_rdatatype_any ,
        &t);
 if (result == ISC_R_FAILURE) {
  printf("\n;; RRsig of RRset is missing to continue validation"
         " SHOULD NOT APPEND: FAILED\n\n");
  goto cleanandgo;
 }
 result = sigchase_verify_sig(&chase_name, chase_rdataset,
         chase_keyrdataset,

     chase_sigrdataset);
 if (result != ISC_R_SUCCESS) {
  printf("\n;; Impossible to verify the RRset : FAILED\n\n");
  /*
    printf("RRset:\n");
    print_rdataset(&chase_name , chase_rdataset);
    printf("DNSKEYset:\n");
    print_rdataset(&chase_name , chase_keyrdataset);
    printf("RRSIG of RRset:\n");
    print_rdataset(&chase_name , chase_sigrdataset);
    printf("\n");
  */
  goto cleanandgo;
 } else {
  printf("\n;; The Answer:\n");
  print_rdataset(&chase_name , chase_rdataset);

  printf("\n;; FINISH : we have validate the DNSSEC chain"
         " of trust: SUCCESS\n\n");
  goto cleanandgo;
 }
}

#endif
```

```
#if DIG_SIGCHASE_BU

isc_result_t
getneededrr(dns_message_t *msg)
{
 isc_result_t result;
 dns_name_t *name = NULL;
 dns_rdata_t sigrdata = DNS_RDATA_INIT;
 dns_rdata_sig_t siginfo;
 bool t = true;

 if ((result = dns_message_firstname(msg, DNS_SECTION_ANSWER))
     != ISC_R_SUCCESS) {
  printf(";; NO ANSWERS: %s\n",
 isc_result_totext(result));

  if (chase_name.ndata == NULL)
   return (ISC_R_ADDRNOTAVAIL);
 } else {
  dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
 }

 /* What do we chase? */
 if (chase_rdataset == NULL) {
  result = advanced_rrsearch(&chase_rdataset, name,
        dns_rdatatype_any,
        dns_rdatatype_any, &t);
  if (result != ISC_R_SUCCESS) {
   printf("\n;; No Answers: Validation FAILED\n\n");
   return (ISC_R_NOTFOUND);
  }
  dup_name(name, &chase_name);
  printf(";; RRset to chase:\n");
  print_rdataset(&chase_name, chase_rdataset);
 }
 INSIST(chase_rdataset != NULL);


 if (chase_sigrdataset == NULL) {
  result = advanced_rrsearch(&chase_sigrdataset, name,
        dns_rdatatype_rrsig,
        chase_rdataset->type,
        &chase_siglookedup);
  if (result == ISC_R_FAILURE) {
   printf("\n;; RRSIG is missing for continue validation:"
          " FAILED\n\n");
```

```
 if (dns_name_dynamic(&chase_name))
  free_name(&chase_name);
 return
(ISC_R_NOTFOUND);
 }
 if (result == ISC_R_NOTFOUND) {
  return (ISC_R_NOTFOUND);
 }
 printf("\n;; RRSIG of the RRset to chase:\n");
 print_rdataset(&chase_name, chase_sigrdataset);
}
INSIST(chase_sigrdataset != NULL);


/* first find the DNSKEY name */
result = dns_rdataset_first(chase_sigrdataset);
check_result(result, "empty RRSIG dataset");
dns_rdataset_current(chase_sigrdataset, &sigrdata);
result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
check_result(result, "sigrdata tostruct siginfo");
dup_name(&siginfo.signer, &chase_signame);
dns_rdata_freestruct(&siginfo);
dns_rdata_reset(&sigrdata);

/* Do we have a key?  */
if (chase_keyrdataset == NULL) {
 result = advanced_rrsearch(&chase_keyrdataset,
       &chase_signame,
       dns_rdatatype_dnskey,
       dns_rdatatype_any,
       &chase_keylookedup);
 if (result == ISC_R_FAILURE) {
  printf("\n;; DNSKEY is missing to continue validation:"
         " FAILED\n\n");
  free_name(&chase_signame);
  if
(dns_name_dynamic(&chase_name))
   free_name(&chase_name);
  return (ISC_R_NOTFOUND);
 }
 if (result == ISC_R_NOTFOUND) {
  free_name(&chase_signame);
  return (ISC_R_NOTFOUND);
 }
 printf("\n;; DNSKEYset that signs the RRset to chase:\n");
 print_rdataset(&chase_signame, chase_keyrdataset);
}
INSIST(chase_keyrdataset != NULL);
```

```
if (chase_sigkeyrdataset == NULL) {
 result = advanced_rrsearch(&chase_sigkeyrdataset,
       &chase_signame,
       dns_rdatatype_rrsig,
       dns_rdatatype_dnskey,
       &chase_sigkeylookedup);
 if (result == ISC_R_FAILURE) {
  printf("\n;; RRSIG for DNSKEY is missing  to continue"
         " validation : FAILED\n\n");
  free_name(&chase_signame);
  if (dns_name_dynamic(&chase_name))
   free_name(&chase_name);
  return (ISC_R_NOTFOUND);
 }
 if (result == ISC_R_NOTFOUND) {
  free_name(&chase_signame);
  return (ISC_R_NOTFOUND);
 }
 printf("\n;; RRSIG of the
DNSKEYset that signs the "
        "RRset to chase:\n");
 print_rdataset(&chase_signame, chase_sigkeyrdataset);
}
INSIST(chase_sigkeyrdataset != NULL);


if (chase_dsrdataset == NULL) {
 result = advanced_rrsearch(&chase_dsrdataset, &chase_signame,
       dns_rdatatype_ds, dns_rdatatype_any,
       &chase_dslookedup);
 if (result == ISC_R_FAILURE) {
  printf("\n;; WARNING There is no DS for the zone: ");
  dns_name_print(&chase_signame, stdout);
  printf("\n");
 }
 if (result == ISC_R_NOTFOUND) {
  free_name(&chase_signame);
  return (ISC_R_NOTFOUND);
 }
 if (chase_dsrdataset != NULL) {
  printf("\n;; DSset of the DNSKEYset\n");
  print_rdataset(&chase_signame, chase_dsrdataset);
 }
}

if (chase_dsrdataset != NULL) {
 /*
```

```
  * if there is no RRSIG of DS,
  * we don't want to search on the network
  */
 result = advanced_rrsearch(&chase_sigdsrdataset,
       &chase_signame,
       dns_rdatatype_rrsig,
       dns_rdatatype_ds,
&t);
 if (result == ISC_R_FAILURE) {
  printf(";; WARNING : NO RRSIG DS : RRSIG DS"
        " should come with DS\n");
  /*
   * We continue even the DS couldn't be validated,
   * because the DNSKEY could be a Trusted Key.
   */
  chase_dsrdataset = NULL;
 } else {
  printf("\n;; RRSIG of the DSset of the DNSKEYset\n");
  print_rdataset(&chase_signame, chase_sigdsrdataset);
 }
}
return (1);
}



void
sigchase_bu(dns_message_t *msg)
{
 isc_result_t result;
 int ret;

 if (tk_list.nb_tk == 0) {
  result = get_trusted_key();
  if (result != ISC_R_SUCCESS) {
   printf("No trusted keys present\n");
   return;
  }
 }


 ret = getneededrr(msg);
 if (ret == ISC_R_NOTFOUND)
  return;

 if (ret == ISC_R_ADDRNOTAVAIL) {
  /* We have no response */
  dns_rdataset_t *rdataset;
```

```
 dns_rdataset_t *sigrdataset;
 dns_name_t rdata_name;
 dns_name_t query_name;


 dns_name_init(&query_name, NULL);
 dns_name_init(&rdata_name, NULL);
 nameFromString(current_lookup->textname,
&query_name);

 result = prove_nx(msg, &query_name, current_lookup->rdclass,
    current_lookup->rdtype, &rdata_name,
    &rdataset, &sigrdataset);
 free_name(&query_name);
 if (rdataset == NULL || sigrdataset == NULL ||
    dns_name_countlabels(&rdata_name) == 0) {
  printf("\n;; Impossible to verify the Non-existence,"
        " the NSEC RRset can't be validated: "
        "FAILED\n\n");
  clean_trustedkey();
  return;
 }

 if (result != ISC_R_SUCCESS) {
  printf("\n No Answers and impossible to prove the"
        " unsecurity : Validation FAILED\n\n");
  clean_trustedkey();
  return;
 }
 printf(";; An NSEC prove the non-existence of a answers,"
       " Now we want validate this NSEC\n");

 dup_name(&rdata_name, &chase_name);
 free_name(&rdata_name);
 chase_rdataset =  rdataset;
 chase_sigrdataset = sigrdataset;
 chase_keyrdataset = NULL;
 chase_sigkeyrdataset = NULL;
 chase_dsrdataset
= NULL;
 chase_sigdsrdataset = NULL;
 chase_siglookedup = false;
 chase_keylookedup = false;
 chase_dslookedup = false;
 chase_sigdslookedup = false;
 sigchase(msg);
 clean_trustedkey();
 return;
```

```
}


printf("\n\n\n;; WE HAVE MATERIAL, WE NOW DO VALIDATION\n");

result = sigchase_verify_sig(&chase_name, chase_rdataset,
       chase_keyrdataset,
       chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
 free_name(&chase_name);
 free_name(&chase_signame);
 printf(";; No DNSKEY is valid to check the RRSIG"
       " of the RRset: FAILED\n");
 clean_trustedkey();
 return;
}
printf(";; OK We found DNSKEY (or more) to validate the RRset\n");

result = contains_trusted_key(&chase_signame, chase_keyrdataset,
        chase_sigkeyrdataset);
if (result ==  ISC_R_SUCCESS) {
 free_name(&chase_name);
 free_name(&chase_signame);
 printf("\n;; Ok this DNSKEY is a Trusted Key,"
       " DNSSEC validation is ok: SUCCESS\n\n");
 clean_trustedkey();
 return;
}

printf(";;
Now, we are going to validate this DNSKEY by the DS\n");

if (chase_dsrdataset == NULL) {
 free_name(&chase_name);
 free_name(&chase_signame);
 printf(";; the DNSKEY isn't trusted-key and there isn't"
       " DS to validate the DNSKEY: FAILED\n");
 clean_trustedkey();
 return;
}

result =  sigchase_verify_ds(&chase_signame, chase_keyrdataset,
       chase_dsrdataset);
if (result !=  ISC_R_SUCCESS) {
 free_name(&chase_signame);
 free_name(&chase_name);
 printf(";; ERROR no DS validates a DNSKEY in the"
       " DNSKEY RRset: FAILED\n");
```

```
 clean_trustedkey();
 return;
 } else
 printf(";; OK this DNSKEY (validated by the DS) validates"
        " the RRset of the DNSKEYs, thus the DNSKEY validates"
        " the RRset\n");
INSIST(chase_sigdsrdataset != NULL);

 dup_name(&chase_signame, &chase_name);
 free_name(&chase_signame);
 chase_rdataset = chase_dsrdataset;
 chase_sigrdataset = chase_sigdsrdataset;
 chase_keyrdataset
 = NULL;
 chase_sigkeyrdataset = NULL;
 chase_dsrdataset = NULL;
 chase_sigdsrdataset = NULL;
 chase_siglookedup = chase_keylookedup = false;
 chase_dslookedup = chase_sigdslookedup = false;

 printf(";; Now, we want to validate the DS :  recursive call\n");
 sigchase(msg);
 return;
}
#endif

void
sigchase(dns_message_t *msg) {
#if DIG_SIGCHASE_TD
 if (current_lookup->do_topdown) {
  sigchase_td(msg);
  return;
 }
#endif
#if DIG_SIGCHASE_BU
 sigchase_bu(msg);
 return;
#endif
}


/*
* return 1  if name1  <  name2
*   0  if name1  == name2
*   -1 if name1  >  name2
*    and -2 if problem
*/
int
```

```
inf_name(dns_name_t *name1, dns_name_t *name2)
{
 dns_label_t  label1;
 dns_label_t  label2;
 unsigned int nblabel1;
 unsigned int nblabel2;
 int min_lum_label;
 int i;
 int ret = -2;

 nblabel1 = dns_name_countlabels(name1);
 nblabel2 = dns_name_countlabels(name2);

 if (nblabel1 >= nblabel2)
  min_lum_label = nblabel2;
 else
  min_lum_label
 = nblabel1;


 for (i=1 ; i < min_lum_label; i++) {
  dns_name_getlabel(name1, nblabel1 -1  - i, &label1);
  dns_name_getlabel(name2, nblabel2 -1  - i, &label2);
  if ((ret = isc_region_compare(&label1, &label2)) != 0) {
   if (ret < 0)
    return (-1);
   else if (ret > 0)
    return (1);
  }
 }
 if (nblabel1 == nblabel2)
  return (0);

 if (nblabel1 < nblabel2)
  return (-1);
 else
  return (1);
}

/**
*
*
*
*/
isc_result_t
prove_nx_domain(dns_message_t *msg,
  dns_name_t *name,
  dns_name_t *rdata_name,
```

```
 dns_rdataset_t **rdataset,
 dns_rdataset_t **sigrdataset)
{
 isc_result_t ret = ISC_R_FAILURE;
 isc_result_t result = ISC_R_NOTFOUND;
 dns_rdataset_t *nsecset = NULL;
 dns_rdataset_t *signsecset = NULL ;
 dns_rdata_t nsec = DNS_RDATA_INIT;
 dns_name_t *nsecname;
 dns_rdata_nsec_t nsecstruct;

 if ((result = dns_message_firstname(msg, DNS_SECTION_AUTHORITY))
    != ISC_R_SUCCESS) {
  printf(";; nothing
 in authority section : impossible to"
        " validate the non-existence : FAILED\n");
  return (ISC_R_FAILURE);
 }

 do {
  nsecname = NULL;
  dns_message_currentname(msg, DNS_SECTION_AUTHORITY, &nsecname);
  nsecset = search_type(nsecname, dns_rdatatype_nsec,
         dns_rdatatype_any);
  if (nsecset == NULL)
   continue;

  printf("There is a NSEC for this zone in the"
        " AUTHORITY section:\n");
  print_rdataset(nsecname, nsecset);

  for (result = dns_rdataset_first(nsecset);
      result == ISC_R_SUCCESS;
      result = dns_rdataset_next(nsecset)) {
   dns_rdataset_current(nsecset, &nsec);

   signsecset
    = chase_scanname_section(msg, nsecname,
       dns_rdatatype_rrsig,
       dns_rdatatype_nsec,
       DNS_SECTION_AUTHORITY);
   if (signsecset == NULL) {
    printf(";; no RRSIG NSEC in authority section:"
          " impossible to validate the "
          "non-existence: FAILED\n");
    return (ISC_R_FAILURE);
   }
```

```
  ret
 = dns_rdata_tostruct(&nsec, &nsecstruct, NULL);
  check_result(ret,"dns_rdata_tostruct");

  if ((inf_name(nsecname, &nsecstruct.next) == 1 &&
       inf_name(name, &nsecstruct.next) == 1) ||
      (inf_name(name, nsecname) == 1 &&
       inf_name(&nsecstruct.next, name) == 1)) {
   dns_rdata_freestruct(&nsecstruct);
   *rdataset = nsecset;
   *sigrdataset = signsecset;
   dup_name(nsecname, rdata_name);

   return (ISC_R_SUCCESS);
  }

  dns_rdata_freestruct(&nsecstruct);
  dns_rdata_reset(&nsec);
 }
 } while (dns_message_nextname(msg, DNS_SECTION_AUTHORITY)
  == ISC_R_SUCCESS);

 *rdataset = NULL;
 *sigrdataset =  NULL;
 rdata_name = NULL;
 return (ISC_R_FAILURE);
}

/**
*
*
*
*
*
*/
isc_result_t
prove_nx_type(dns_message_t *msg, dns_name_t *name, dns_rdataset_t *nsecset,
       dns_rdataclass_t rdclass, dns_rdatatype_t type,
       dns_name_t *rdata_name, dns_rdataset_t **rdataset,
       dns_rdataset_t **sigrdataset)
{
 isc_result_t
 ret;
 dns_rdataset_t *signsecset;
 dns_rdata_t nsec = DNS_RDATA_INIT;

 UNUSED(rdclass);
```

```
ret = dns_rdataset_first(nsecset);
check_result(ret,"dns_rdataset_first");

dns_rdataset_current(nsecset, &nsec);

ret = dns_nsec_typepresent(&nsec, type);
if (ret == ISC_R_SUCCESS)
 printf("OK the NSEC said that the type doesn't exist \n");

signsecset = chase_scanname_section(msg, name,
        dns_rdatatype_rrsig,
        dns_rdatatype_nsec,
        DNS_SECTION_AUTHORITY);
if (signsecset == NULL) {
 printf("There isn't RRSIG NSEC for the zone \n");
 return (ISC_R_FAILURE);
 }
dup_name(name, rdata_name);
*rdataset = nsecset;
*sigrdataset = signsecset;

 return (ret);
}

/**
*
*
*
*
*/
isc_result_t
prove_nx(dns_message_t *msg, dns_name_t *name, dns_rdataclass_t rdclass,
  dns_rdatatype_t type, dns_name_t *rdata_name,
  dns_rdataset_t **rdataset, dns_rdataset_t **sigrdataset)
{
 isc_result_t ret;
 dns_rdataset_t *nsecset =
 NULL;

 printf("We want to prove the non-existence of a type of rdata %d"
        " or of the zone: \n", type);

 if ((ret = dns_message_firstname(msg, DNS_SECTION_AUTHORITY))
     != ISC_R_SUCCESS) {
  printf(";; nothing in authority section : impossible to"
         " validate the non-existence : FAILED\n");
  return (ISC_R_FAILURE);
 }
```

```
 nsecset = chase_scanname_section(msg, name, dns_rdatatype_nsec,
     dns_rdatatype_any,
     DNS_SECTION_AUTHORITY);
 if (nsecset != NULL) {
  printf("We have a NSEC for this zone :OK\n");
  ret = prove_nx_type(msg, name, nsecset, rdclass,
        type, rdata_name, rdataset,
        sigrdataset);
  if (ret != ISC_R_SUCCESS) {
   printf("prove_nx: ERROR type exist\n");
   return (ret);
  } else {
   printf("prove_nx: OK type does not exist\n");
   return (ISC_R_SUCCESS);
  }
 } else {
  printf("there is no NSEC for this zone: validating "
         "that the zone doesn't exist\n");
  ret = prove_nx_domain(msg, name, rdata_name,

      rdataset, sigrdataset);
  return (ret);
 }
 /* Never get here */
}
#endif
```

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1.167 paramiko 1.17.4

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1.168 xmldiff 2.4

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1.170 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.171 dmidecode 3.5

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1.172 zlib 1.2.5

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version 1.2.11, January 15th, 2017

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*/

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1.173 sbsigntool 1.3

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sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.174 pcre 8.41

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1.175 json-c 0.13.1

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1.176 net-tools 1.60

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1.178 ncurses 6.1

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

1.179 busybox 1.27.2

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1.180 cronie 1.5.1

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1.181 libusb 1.0.22

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1.182 popt 1.16

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1.187 libxml 2.9.8

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1.188 pyyaml 3.12

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1.189 bc 1.07

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1.198 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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@(#) $RCSfile: certdata.txt,v $
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1.199 procps 3.3.15

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined
library of the fact
that part of it is a work based on the Library, and explaining
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That's all there is to it!

1.200 libxml2 2.9.10

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1.201 dosfs-tools 4.1

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System Libraries, or general-purpose tools or generally
available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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customarily used for software interchange.

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

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1.204 python-jsonpointer 2.0

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1.206 kexec-tools 2.0.16

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+ many more (please mail me if you are missing in this list and would
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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
```

```
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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

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

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

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

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

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

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

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

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

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

1.218 cracklib 2.9.5

1.218.1 Available under license :

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Version 2.1, February 1999

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This license, the Lesser General Public License, applies to some

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who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
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introduced by others.
^L
Finally,
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any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
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any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore
permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

The precise terms and conditions for copying, distribution and

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in order to run.
^L

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly
into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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the terms of this License.

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

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

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

Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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under the terms of Sections 1 and 2 above provided that you accompany
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complete corresponding machine-readable source code, which
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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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
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linked with it, is called a "work that uses the Library". Such a
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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.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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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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with any other library
facilities. This must be distributed under the terms of the
Sections above.

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

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^L

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file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full

notice is found.

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

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

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

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

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

That's all there is to it!

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

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

[Cracklib-devel] cracklib license

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

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

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

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,

> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
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>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
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>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
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> GPL to use the library, too, which would be sufficient for the packages
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>
> In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October

2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

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

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

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

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

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

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311

for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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

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

Happy now? :-)

-a

1.219 sqlite 3.31.1

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@enumerate 0
@item Definitions.

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

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

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

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

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

To ``propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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

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

@item Source Code.

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

A ``Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming
language, one that
is widely used among developers working in that language.

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

The ``Corresponding Source'' for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However,
it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

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

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work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the

terms of section 4, provided that you also meet all of these
conditions:

@enumerate a
@item
The work must carry prominent notices stating that you modified it,
and giving a relevant date.

@item
The work must carry prominent notices stating that it is released
under this License and any conditions added
 under section 7. This
requirement modifies the requirement in section 4 to ``keep intact all
notices''.

@item
You must license the entire work, as a whole, under this License to
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therefore apply, along with any applicable section 7 additional terms,
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any other way, but it does not invalidate such permission if you have
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@item
If the work has interactive user interfaces, each must display
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need not make them do so.
@end enumerate

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

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

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

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

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

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

@item
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.

@end enumerate

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

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

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

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information
does not include a
requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification

itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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@end enumerate

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@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
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the ``copyright'' line and a pointer to where the full notice is found.

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@end smallexample

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

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This program comes with ABSOLUTELY NO WARRANTY;
 for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
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The hypothetical commands @samp{show w} and @samp{show c} should show
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An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified

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b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

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0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

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1.224 dhcp 4.4.1

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clarify this fact.

* 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 form 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>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id$ -->

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

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

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

```
      <xsl:with-param
 name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

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

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 - Local variables:
 - mode: sgml
 - End:
-->
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1.230 wget 1.20.3

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1.231 fdisk 2.35.1

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1.235 log-rotate 3.15.1

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1.239 glibc 2.31

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1.241 sed 4.8

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

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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.
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a) Accompany
the work with the complete corresponding
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly
with a modified version of the library, if
the user installs one, as long as the modified version is
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Version 3.1, 31 March 2009

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1.245 libnl3 3.5.0

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1.247 perl 5.30.1

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1.248 jansson 2.13.1

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1.252 zstd 1.3.6

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1.254 pycparser 2.18

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1.255 ntp 4.2.8p15

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30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

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49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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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 validated HTML documents according to the HTML DTD

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1.256 elasticsearch 2.4.1

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*/
/**
   * <p>
   * Allows you to either upgrade your domain or perform an Upgrade eligibility check to a compatible
Elasticsearch
   * version.
   * </p>
   *
   * @param upgradeElasticsearchDomainRequest
   *        Container for request parameters to <code> <a>UpgradeElasticsearchDomain</a> </code> operation.
   * @return A Java Future
 containing the result of the UpgradeElasticsearchDomain operation returned by the service.<br/>
   *         The CompletableFuture returned by this method can be completed exceptionally with the following
   *         exceptions.
   *         <ul>
   *         <li>BaseException An error occurred while processing the request.</li>
   *         <li>ResourceNotFoundException An exception for accessing or deleting a resource that does not exist.
   *         Gives http status code of 400.</li>
   *         <li>ResourceAlreadyExistsException An exception for creating a resource that already exists. Gives http
   *         status code of 400.</li>
   *         <li>DisabledOperationException An error occured because the client wanted to access a not supported
   *         operation. Gives http status code of 409.</li>
   *         <li>ValidationException An exception for missing / invalid input fields. Gives http status code of 400.</li>
   *         <li>InternalException
 The request processing has failed because of an unknown error, exception or failure
   *         (the failure is internal to the service) . Gives http status code of 500.</li>
   *         <li>SdkException Base class for all exceptions that can be thrown by the SDK (both service and client).
   *         Can be used for catch all scenarios.</li>
   *         <li>SdkClientException If any client side error occurs such as an IO related failure, failure to get
   *         credentials, etc.</li>
   *         <li>ElasticsearchException Base class for all service exceptions. Unknown exceptions will be thrown as an
   *         instance of this type.</li>
   *         </ul>
   * @sample ElasticsearchAsyncClient.UpgradeElasticsearchDomain
   */

Found in path(s):
* /elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/ElasticsearchAsyncClient.java
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/**
   * <p>
   * Allows you to either upgrade your domain or perform an Upgrade eligibility check to a compatible
Elasticsearch
   * version.
   * </p>
   *
   * @param upgradeElasticsearchDomainRequest
   *        Container for request parameters to <code> <a>UpgradeElasticsearchDomain</a> </code> operation.
   * @return Result of
 the UpgradeElasticsearchDomain operation returned by the service.
   * @throws BaseException
   *         An error occurred while processing the request.
   * @throws ResourceNotFoundException
   *         An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.
   * @throws ResourceAlreadyExistsException
   *         An exception for creating a resource that already exists. Gives http status code of 400.
   * @throws DisabledOperationException
   *         An error occured because the client wanted to access a not supported operation. Gives http status code of
   *         409.
   * @throws ValidationException
   *         An exception for missing / invalid input fields. Gives http status code of 400.
   * @throws InternalException
   *         The request processing has failed because of an unknown error, exception or failure (the failure is
   *         internal to the service) . Gives http status code of 500.
    * @throws SdkException
   *         Base class for all exceptions that can be thrown by the SDK (both service and client). Can be used for
   *         catch all scenarios.
   * @throws SdkClientException
   *         If any client side error occurs such as an IO related failure, failure to get credentials, etc.
   * @throws ElasticsearchException
   *         Base class for all service exceptions. Unknown exceptions will be thrown as an instance of this type.
   * @sample ElasticsearchClient.UpgradeElasticsearchDomain
   */

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* /elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/RemoveTagsResponse.java
*
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* /elasticsearch-2-4-1-sources-2-

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1.257 libidn 2.3.0

1.257.1 Available under license :

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

which the executable runs, unless that component itself accompanies the executable.

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed
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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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under these terms. A "work based on the
Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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of the use of the Library in a tool for
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition,
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3. You may opt to apply the terms of the ordinary GNU General Public
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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
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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.)

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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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

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

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

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

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<one line to give the library's name and a brief idea of what it does.>
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If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the

Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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

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

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

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

This program is distributed in the hope that it will be useful, but
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General Public License for more details.

You
 should have received a copy of the GNU General Public License
along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample

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

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

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it

under certain conditions; type @samp{show c} for details.
@end smallexample

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

You should also get your employer (if you work as a programmer) or school,
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first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@c man end
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      Version 2, June 1991

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

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your libraries, too.

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if you want it, that you can change the software or use pieces of it
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To protect your rights, we need to make restrictions that forbid
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These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes
to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
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we have made it clear that any patent must be licensed
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the same as in the ordinary license.

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

analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

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

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

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

Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition,
mere aggregation of another work not based on the Library
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
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copy of this License. If the work
during execution displays copyright notices, you must include the
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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d) 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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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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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.

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

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.259 iputils 20190709

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

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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1.260 popt 1.18

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1.262 openssh 8.2p1

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* Optimised ANSI C code for the Rijndael cipher (now AES)
*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.263 o-profile 1.3.0

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On all platforms, Nmap is normally linked with:
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  ethernet frames. A modified version is distributed with Nmap in the
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  is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's
  version detection and is also made available as an NSE library.
  Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
 o liblua: Lua programming language. Lua is the implementation language
  of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow
  running Lua programs inside Nmap. Distributed with Nmap in the liblua

subdirectory. liblua can be omitted by configuring with the
--without-liblua configuration directive.
http://www.lua.org/

o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/

o LIBLINEAR. Used for IPv6 OS classifiction.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/

o libsvn. The Subversion library, used by the updater program nmap-update. http://subversion.apache.org/

o APR (Apache Portable Runtime). Used by libsvn. http://apr.apache.org/

On Windows only, Nmap uses:

o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
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Zenmap and Ndiff require:

o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
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The Windows and Mac OS X binary packages include bundled versions of:

o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.
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o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.
http://www.cairographics.org/

o libgailutil: Accessibility support for GTK+.

o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.
http://www.libpng.org/ http://www.ijg.org/ http://www.libtiff.org/

o zlib and bzip2: compression libraries.
http://www.zlib.org/ http://www.bzip.org/

o Expat: XML parser library.
http://expat.sourceforge.net/

o fontconfig: font configuration library.
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o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1
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o Various X.org libraries. These were built using MacPorts.
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Written
by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.266 bash 5.0.18

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1.267 lcms 2.7

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1.268 libcap 2.32

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1.269 pyasn1 0.4.8

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Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
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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
Classifier: Intended Audience :: Telecommunications Industry
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:

Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
* /pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
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1.270 sh 1.12.14

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1.271 protobuf 3.14.0

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1.272 libidn 2.3.0

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1.278 acl 2.2.53

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1.281 botocore 1.10.84

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```
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
```

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1.282 util-linux 2.35.1

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*

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/**
    * Creates a new JSRInliner. <i>Subclasses must not use this
    * constructor</i>. Instead, they must use the
    * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
    * version.
    *
    * @param mv
    *
   the <code>MethodVisitor</code> to send the resulting inlined
    *           method code to (use <code>null</code> for none).
    * @param access
    *           the method's access flags (see {@link Opcodes}). This
    *           parameter also indicates if the method is synthetic and/or
    *           deprecated.
```

```
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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*/
```

```
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

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/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/Processor.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
*
/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/ASMContentHandler.java
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/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
```

```
   *           the method visitor to which this adapter delegates calls. May
   *           be <tt>null</tt>.
   * @throws IllegalStateException
   *            If a subclass calls this constructor.
   */
```

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/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *            If a subclass calls this constructor.
```

```
 */
```

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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
*
 /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ByteVector.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
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 /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/IntInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassReader.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnNode.java
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 /asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LineNumberNode.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Handle.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
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 /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Subroutine.java

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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ParameterNode.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureVisitor.java

1.287 gdbm 1.18.1

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1. Seti UI - A subtle dark colored UI theme for Atom. (https://github.com/jesseweed/seti-ui)

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1.291 pciutils 3.6.4

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1.292 pcre 8.44

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Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration
 including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many
 small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost;
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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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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

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

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

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

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

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

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

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

directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

It may happen that this requirement contradicts the license

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

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

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

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

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

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

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

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

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

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1.295 openssl 1.1.1k

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1.296 e2fsprogs 1.45.7

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

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

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
```

```
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

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

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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c

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

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

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

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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

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

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

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

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

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```

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1.301 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
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requests. To contact me about bugs and/or new features, please send
email to dave@dabeaz.com.

-- Dave

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1.302 python-requests 2.23.0

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1.304 urllib3 1.25.7

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield
 <https://lukasa.co.uk/about/>
 * Stream method for Response objects.

 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer
 <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded
 requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
 improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.

 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
 * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai
 (through Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>

* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header
regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

1.305 libevdev 1.9.1

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>>> freebsd-base64-4.8
>>>
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==========

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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1.309 idna 11.0.0

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1.311 binutils 2.34.0

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  iconv (Charset Conversion Library) v2.0

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If you've contributed to gas and your name isn't listed here, it is
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nickc@redhat.com and I'll correct the situation.

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration
including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many
small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost;
we aren't
intentionally leaving anyone out.

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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.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
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Because
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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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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@enumerate 0
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@item
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received the object code with such an offer, in accord with subsection
6b.

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concluded that weaker conditions might promote sharing better.

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any
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1.313 erlang-otp 22.3.4.17

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Email domain: cam.ac.uk

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---

[PCRE]

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The basic library functions are written in C and are freestanding.
Also
included in the distribution is a set of C++ wrapper functions, and a
just-in-time compiler that can be used to optimize pattern matching. These
are both optional features that can be omitted when the library is built.

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Written by: Philip Hazel
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[Misc
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 */
```

[zlib]

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

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

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

[dialyzer]

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[edoc, syntax_tools]

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1.314 shadow 4.8.1

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

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

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#
# This 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

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

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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files of the EXT2 file system utilities. The EXT2 utilities were
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xwd v1.0.7

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GL/wglext.h Khronos
KHR/khrplatform.h Khronos

****

---
include/GL/gl.h :

Mesa 3-D
graphics library

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  *

```
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 *
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 *
 */
```

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by patents owned by IBM, AT&T, and Mitsubishi.
 Hence arithmetic coding
cannot legally be used without obtaining one or more licenses. For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF writer has been simplified to

produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

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docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c

src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
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1.324 python-pip 22.0.4

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

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

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

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
A. HISTORY OF THE SOFTWARE
==========

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

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

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

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

Release	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:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice

of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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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
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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
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

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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

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Release	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
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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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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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1.328 cjson 1.7.13

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1.329 pycparser 2.20

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1.330 iperf 2.1.7

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 * stdio.c
 * by Mark Gates <mgates@nlanr.net>
 * and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
 * ----------------------------------------------------------------
 * input and output numbers, converting with kilo, mega, giga
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1.331 sysfsutils 2.1.0

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1.332 libnsl 2.0.0

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January 25, 1999

Basic Socket Interface Extensions for IPv6

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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 additonal 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.

- 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.

3.2 IPv6 Address Structure

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

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

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

The structure in6_addr above is usually implemented with an embedded union with extra fields that force the desired alignment level in a manner similar to BSD implementations of "struct in_addr". Those additional
implementation details are omitted here for simplicity.

An example is as follows:

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

```
};
#define s6_addr _S6_un._S6_u8
```

3.3 Socket Address Structure for 4.3BSD-Based Systems

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

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

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

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

The sin6_family field identifies this as a sockaddr_in6 structure. This

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

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

The port number is stored in network byte order.

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

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

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

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

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

3.4 Socket Address Structure for 4.4BSD-Based Systems

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

struct sockaddr_in6 {

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


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

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 0:0:0:0:0: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.

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.

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 */
```



```
               /* storage alignment */
  char         __ss_pad2[_SS_PAD2SIZE];
               /* 112 byte pad to achieve desired size, */
               /* _SS_MAXSIZE value minus size of ss_len, */
               /* __ss_family, __ss_pad1, __ss_align fields is 112 */
};
```

The above example implementation illustrates a data structure which will align on a 64 bit boundary. An implementation specific field "__ss_align" along "__ss_pad1" is used to force a 64-bit alignment which covers proper alignment good enough for needs of sockaddr_in6 (IPv6), sockaddr_in (IPv4) address data structures. The size of padding fields __ss_pad1 depends
on the chosen alignment boundary. The size of padding field __ss_pad2 depends on the value of overall size chosen for the total size of the structure. This size and alignment are represented in the above example by implementation specific (not required) constants _SS_MAXSIZE (chosen value 128) and _SS_ALIGNMENT (with chosen value 8). Constants _SS_PAD1SIZE (derived value 6) and _SS_PAD2SIZE (derived value 112) are also for illustration and not required. The implementation specific definitions and structure field names above start with an underscore to denote implementation private namespace. Portable code is not expected to access or reference those fields or constants.

The sockaddr_storage structure solves the problem of declaring storage for automatic variables which is large enough and aligned enough for storing socket address data structure of any family. For example, code

with a file descriptor and without the context of the address family can pass a pointer to a variable of
this type where a pointer to a socket
address structure is expected in calls such as getpeername() and determine the address family by accessing the received content after the call.

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

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

So now an application can do the following:

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

4. Interface Identification

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

the interface on which a datagram is to be sent.

Interfaces are normally known by names such as "le0", "sl1", "ppp2", and the like. On Berkeley-derived implementations, when an interface is made known to the system, the kernel assigns a unique positive integer value (called the interface index) to that interface. These are small

positive integers that start at 1. (Note that 0 is never used for an interface index.) There may be gaps so that there is no current interface for a particular positive interface index.

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

4.1 Name-to-Index

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

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

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

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

4.2 Index-to-Name

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

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

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

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

proper value (e.g., ENOMEM).

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>.

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 */
```



```
    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.

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.

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

- The AI_ADDRCONFIG flag specifies that a query for AAAA records should occur only if the node has at least one IPv6 source address configured and a query for A records should occur only if the node has at least one IPv4 source address configured.

  For example, if the node has no IPv6 source addresses configured, and af equals
AF_INET6, and the node name being looked up has both
  AAAA and A records, then:

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

The special flags value of AI_DEFAULT is defined as

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

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

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

The two simple cases are:

When name is a dotted-decimal IPv4 address and af equals AF_INET, or when name is an IPv6 hex address and af equals AF_INET6. The members of the returned hostent
structure are: h_name points to a copy of the name argument, h_aliases is a NULL pointer, h_addrtype is a copy of the af argument, h_length is either 4 (for AF_INET) or 16 (for AF_INET6), h_addr_list[0] is a pointer to the 4-byte or 16-byte binary address, and h_addr_list[1] is a NULL pointer.

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

It is an error when name is an IPv6 hex address and af equals AF_INET. The function's return value is a NULL pointer and error_num equals HOST_NOT_FOUND.

6.2 Address-To-Nodename Translation

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

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

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

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

HOST_NOT_FOUND

No such host is known.

NO_ADDRESS

The server recognized the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

NO_RECOVERY

An unexpected server failure occurred which cannot be recovered.

TRY_AGAIN

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

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

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

2. If af is AF_INET, lookup the name for the given IPv4 address (e.g., query for a PTR record in the in-addr.arpa domain).

3. If af is AF_INET6, lookup the name for the given IPv6 address (e.g., query for a PTR record in the ip6.int domain).

4. If the function is returning success, then the single address that is returned in the hostent structure is a copy of the first argument to the function with the same address family that was passed as

an argument to this function.

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

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 {
```



```
  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.

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

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].

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

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.

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

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 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.

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./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
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./bin/tests/system/allow-query/setup.sh SH 2018,2019,2020,2021,2022
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./bin/tests/system/auth/setup.sh SH 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
./bin/tests/system/autosign/ns2/child.optout.example.db ZONE 2009,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/autosign/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/private.secure.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./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
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./bin/tests/system/autosign/ns3/inaczsk.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
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./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
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./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/chain/prereq.sh SH 2017,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/bad-rate-limit-all-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/bad-rate-limit-nodata-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/shared.example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/tests.sh SH
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./bin/tests/system/checkconf/view-class-any1.conf CONF-C 2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/view-class-in1.conf CONF-C 2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/warn-dlv-dlv.isc.org.conf CONF-C 2017,2018,2019,2020,2021,2022
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./bin/tests/system/checkconf/warn-validation-auto-key.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkds/clean.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/checkds/missing.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./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
./bin/tests/system/checkds/none.example.ds.db X 2012,2018,2019,2020,2021,2022
./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
./bin/tests/system/checkds/ok.example.ds.db X 2012,2018,2019,2020,2021,2022
./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
./bin/tests/system/checkds/wrong.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/wrong.example.ds.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checknames/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/checknames/ns1/fail.update.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/ignore.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
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./bin/tests/system/checkzone/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
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./bin/tests/system/cookie/ns1/example.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
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./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

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./bin/tests/system/coverage/04-zsk-unpublished/expect X 2013,2016,2018,2019,2020,2021,2022
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./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
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./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
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./bin/tests/system/coverage/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
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./bin/tests/system/digdelv/setup.sh SH 2018,2019,2020,2021,2022
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./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/@/DNAME=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/@/DNAME=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
./bin/tests/system/dnssec/ns3/optout.optout.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/publish-inactive.example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/dnssec/ns3/secure.example.db.in ZONE
2000,2001,2004,2007,2008,2010,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/secure.nsec3.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./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/ttlpatch.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
./bin/tests/system/dnssec/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./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
./bin/tests/system/dscp/ns5/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns6/hint.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns6/named.args X 2013,2014,2018,2019,2020,2021,2022
./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
./bin/tests/system/dsdigest/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./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/ednscompliance/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/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
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./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
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./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/noglue.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
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./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
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./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
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./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
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./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
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./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
2000,2001,2002,2003,2004,2007,2008,2009,2010,2012,2013,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/inline/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./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
./bin/tests/system/inline/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./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
./bin/tests/system/inline/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./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
./bin/tests/system/inline/ns8/named.conf.in CONF-C 2020,2021,2022
./bin/tests/system/inline/ns8/sign.sh SH 2020,2021,2022
./bin/tests/system/inline/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/setup.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./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
./bin/tests/system/integrity/ns1/srv-cname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/integrity/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/integrity/tests.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ans2/startme X 2011,2018,2019,2020,2021,2022

./bin/tests/system/ixfr/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns1/startme X 2012,2013,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/mytest0.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/mytest1.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/mytest2.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/subtest0.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/subtest1.db ZONE 2011,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/keymgr/04-zsk-unpublished/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/05-ksk-unpub-active/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/keymgr/09-no-keys/expect X 2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/keymgr/12-many-active/expect X 2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/keymgr/15-unspec/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/16-wrongalg-unspec/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/16-wrongalg-unspec/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/17-noforce/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/17-noforce/expect X 2016,2018,2019,2020,2021,2022
./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
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./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
./bin/tests/system/keymgr/19-old-keys/policy.conf CONF-C 2019,2020,2021,2022
./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
./bin/tests/system/keymgr/testpolicy.py PYTHON 2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/legacy/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/legacy/ns3/dropedns-notcp.db ZONE 2014,2016,2018,2019,2020,2021,2022
./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
2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./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
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./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/nzd2nzf/clean.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/ns1/added.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/prereq.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/setup.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/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
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./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 2014,2015,2015,2016,2018,2019,2020,2021,2022
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./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
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./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
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./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
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./bin/tests/system/reclimit/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
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./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
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./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
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./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
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./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
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./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
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./bin/tests/system/resolver/ns4/sourcens.db ZONE 2020,2021,2022
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./bin/tests/system/resolver/ns4/tld2.db ZONE 2012,2014,2016,2018,2019,2020,2021,2022
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./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
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./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
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./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
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./bin/tests/system/resolver/ns7/named1.conf.in CONF-C 2018,2019,2020,2021,2022
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./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
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
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./bin/tests/system/rndc/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rndc/gencheck.c C 2014,2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rndc/ns2/secondkey.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rndc/ns4/named.conf.in CONF-C 2013,2014,2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rndc/setup.sh SH 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
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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
./bin/tests/system/rootkeysentinel/ns2/example.db.in ZONE 2018,2019,2020,2021,2022
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./bin/tests/system/rootkeysentinel/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/tests.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rpz/README TXT.BRIEF 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/broken.db.in ZONE 2019,2020,2021,2022
./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/rpzrecurse/README TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpzrecurse/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
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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
./bin/tests/system/rpzrecurse/ns2/db.given ZONE 2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.log1 ZONE 2015,2016,2018,2019,2020,2021,2022
./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
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./bin/tests/system/rpzrecurse/ns2/db.wildcard2b ZONE 2015,2016,2018,2019,2020,2021,2022
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./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
./bin/tests/system/rpzrecurse/ns2/named.wildcard2.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard3.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard4.conf CONF-C 2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022
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./bin/tests/system/rpzrecurse/ns3/named1.conf.in CONF-C 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
./bin/tests/system/rrl/clean.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns1/root.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns2/hints ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns2/tld2.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns3/hints ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/rrl/ns4/hints ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns4/tld4.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/setup.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/tests.sh SH 2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/clean.sh SH 2006,2007,2008,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.fixed.good X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good1 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good10 X 2006,2018,2019,2020,2021,2022
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./bin/tests/system/rrsetorder/dig.out.random.good12 X 2006,2018,2019,2020,2021,2022
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./bin/tests/system/rrsetorder/dig.out.random.good14 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good15 X 2006,2018,2019,2020,2021,2022
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./bin/tests/system/rrsetorder/dig.out.random.good19 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good2 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good20 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good21 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good22 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good23 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good24 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good3 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good4 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good5 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good6 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good7 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good8 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good9 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns1/root.db ZONE 2006,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/tests.sh SH 2006,2007,2008,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/Makefile.in MAKE 2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/README.md TXT.BRIEF 2021,2022
./bin/tests/system/rsabigexponent/bigkey.c C 2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/rsabigexponent/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns1/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.key X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.private X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.key X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.private X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/dsset-example.in X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/example.db.bad ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/example.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/sortlist/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/sortlist/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/sortlist/setup.sh SH 2018,2019,2020,2021,2022
./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
./bin/tests/system/spf/ns1/spf.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/spf/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/spf/tests.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/staticstub/conf/bad02.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/staticstub/conf/bad10.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad11.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good01.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/staticstub/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns2/named.conf.in CONF-C 2010,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/stress/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/stress/setup.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./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/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
./bin/tests/system/tcp/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./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
./bin/tests/system/tkey/ns1/named.conf.in CONF-C
2001,2004,2007,2009,2011,2013,2014,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/tsig/prereq.sh SH 2020,2021,2022
./bin/tests/system/tsig/setup.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/tsig/tests.sh SH 2005,2006,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/authsock.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/tsiggss/ns1/example.nil.db.in X 2011,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/testdenied.ccache X 2010,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/unknown/ns1/example-class10.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/example-in.db ZONE
2000,2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/large.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
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./bin/tests/system/unknown/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./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
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./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
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2000,2001,2004,2005,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
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./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
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./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
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./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
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./bin/tests/system/views/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./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
./bin/tests/system/wildcard/ns1/named.conf.in CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
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./bin/tests/system/wildcard/ns1/nsec3.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/wildcard/tests.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/win32/bigkey.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.vcxproj.user X 2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/win32/keycreate.mak.in X 2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/win32/keycreate.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/badkeydata X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/badmessageid X 2020,2021,2022
./bin/tests/system/xfer/ans5/goodaxfr X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/partial X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/unknownkey X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/unsigned X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/wrongkey X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/clean.sh SH
2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/dig1.good X
2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/xfer/dig2.good X
2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/xfer/knowngood.mapped X 2016,2018,2019,2020,2021,2022
./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
./bin/tests/system/xferquota/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns2/example.db ZONE
2000,2001,2002,2003,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./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
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./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
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./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
./bin/tests/virtual-time/autosign-ksk/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022
./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
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./bin/tests/virtual-time/autosign-zsk/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-zsk/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
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./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
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2001,2002,2004,2005,2006,2007,2008,2009,2010,2013,2014,2015,2016,2018,2019,2020,2021,2022
./win32utils/legacy/BuildPost.bat.in BAT 2005,2006,2013,2014,2016,2018,2019,2020,2021,2022
./win32utils/legacy/BuildSetup.bat.in BAT
2001,2002,2004,2005,2006,2007,2008,2009,2010,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./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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    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="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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1.335 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler

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

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

1.336 usbutils 012

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```
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 *      @(#)queue.h     8.5 (Berkeley) 8/20/94
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 *
 * stdio.c
 * by Mark Gates <mgates@nlanr.net>
 * and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
 * ----------------------------------------------------------------
 * input and output numbers, converting with kilo, mega, giga
 * ---------------------------------------------------------------- */
```

=====

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1.339 gmp 6.2.0

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1.342 rp-pppoe 3.8

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1.349 o-profile 1.1.0-r0

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#
0	leshort	0x0436	psf screen font data
>2	byte	0	256 characters, no index
>2	byte	1	512 characters, no index
>2 byte 2 256 characters, Unicode index
>2 byte 3 512 characters, Unicode index
>2 byte 4 256 characters, Unicode level 2 index
>2 byte 5 512 characters, Unicode level 2 index
>3 byte x 8x%d
#
PC Screen (console) Fonts - psf2 header
#
0	lelong	0x864ab572 psf2 screen font data
>12 lelong&1 1 with Unicode index
>16 lelong x \b, %d glyphs
>28 lelong x \b, %dx
>24 lelong x \b%d
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1.352 tzdata 2018d-1

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1.353 mpclib 1.1.0-1.0

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

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

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

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

 If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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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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^L
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the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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

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mail.

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

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

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

That's all there is to it!

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

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

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

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > > I understand that, and you're welcome to bring it up with Alec
> directly
> > > and see if he wants to relicense his code as LGPL... but at this
> point,
> > > it was enough to just get it consistent and documented as to what
> it was
> > > released under. This wasn't actually a license change, just a
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>=20
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,

> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

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

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the

interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

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

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

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>

X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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

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

Happy now? :-)

-a

1.358 dhcp 4.4.1-r0

1.358.1 Available under license :

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Redwood City, CA 94063

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

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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     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="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.367 eudev 3.2.9

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1.372 python-ply 3.11-1.0

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1.377 six 1.14.0

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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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==========
Advice for new contributors
==========

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing`
   tutorial will give you an introduction to the tools and the workflow.

First steps
==========

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

 The code that you write belongs to you or your employer. If your
 contribution is more than one or two lines of code, you need to sign the
 `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough
 explanation.

* **Triage tickets**

 If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you
 can reproduce it and it seems valid, make a note that you confirmed the bug

and accept the ticket. Make sure the ticket is filed
under the correct
component area. Consider writing a patch that adds a test for the bug's
behavior, even if you don't fix the bug itself. See more at
:ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity
with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the
changes a patch makes, and keep an eye out for syntax that is incompatible
with older but still supported versions of Python. :doc:`Run the tests
</internals/contributing/writing-code/unit-tests>` and make sure they pass.
Where possible and relevant, try them out on a database other than SQLite.
Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the
time it gets reviewed. Make sure it still applies cleanly and functions as
expected. Simply updating a patch is both useful and important! See more on
:doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find
a typo? Do you think that something should be clarified? Go ahead and
suggest a documentation patch! See also the guide on
:doc:`writing-documentation`.

.. note::

    The `reports page`_ contains links to many useful Trac queries, including
    several that are useful for triaging tickets and reviewing patches as
    suggested above.

    .. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/
.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's
some advice to make your work on Django more useful and rewarding.

* **Pick a subject
area that you care about, that you are familiar with, or
that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting
someone else to confirm that a bug is real before you fix
the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as
such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from
start to finish, and
repeat. The shotgun approach of taking on lots of tickets and letting some
fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch
doesn't have docs and tests, there had better be a good reason. Arguments
like "I couldn't find any existing tests of this feature" don't carry much
weight--while it may be true, that means you have the extra-important job of
writing the very first tests for that feature, not that you get a pass from
writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
===

1. **This ticket I care about has been ignored for days/weeks/months! What can
   I do to get it committed?**

   First off, it's not personal. Django is entirely developed by volunteers
   (except the Django fellow), and sometimes folks just don't have time. The
   best thing to do is to
   send a gentle reminder to the |django-developers|
   mailing list asking for review on the ticket, or to bring it up in the
   `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC
   myself?**

   Short answer: No. It's always better to get another set of eyes on a
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1.383 libgcc 1:8.2.0-1ubuntu2~18.04

1.384 libstd-c 8.2.0-1ubuntu2~18.04

1.385 strongswan 5.6.3-1ubuntu2

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1.390 speedtest-cli 2.1.2

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1.391 setuptools-scm 3.3.3

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1.395 python3-asn1crypto 1.3.0

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1.397 rfc3987 1.3.8

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1.398 py 1.11.0

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1.399 zipp 0.6.0

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1.400 python-setuptools 45.2.0

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1.401 libsodium 1.0.16-1.el7

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1.402 ndg-httpsclient 0.5.1-4.ph4

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1.403 idna 11.0.0

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1.404 packaging 19.2

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1.405 nmap 7.60-1ubuntu5

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http://www.lua.org/
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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel
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1.406 tacacs-plus 2.6

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1.407 jsonpointer 2.0

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1.408 python-pip 22.0.4

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Contributors

- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02
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
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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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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
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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
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2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
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2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
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2.5.1	2.5	2007	PSF	yes
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2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Python 2.7.1, so definitely all files are under Python License now.
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
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2.1.1		2001-now	PSF	yes

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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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func initGpl2() {
 Licenses["gpl2"] = License{
  Name:            "GNU General Public License 2.0",
  PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
  Header: `
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package legal

```
var licenses []string

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// It doesn't check whether the text was already present.
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 licenses = append(licenses, text)
 return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
 return licenses
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package cmd

func initBsdClause2() {
 Licenses["freebsd"] = License{
  Name: "Simplified BSD License",
  PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
   "2 clause bsd", "simplified bsd license"},
  Header: `All rights reserved.

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}
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tomb - support for clean goroutine termination in Go.

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*/

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```
import (
 "testing"
)

func TestRegisterLicense(t *testing.T) {
 initial := len(licenses)
 RegisterLicense("dummy")
 if initial+1 != len(licenses) {
  t.Fatal("didn't add a license")
 }
}
```

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 Licenses["mit"] = License{
  Name: "MIT License",
  PossibleMatches: []string{"mit"},
  Header: `
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of this software and associated documentation files (the "Software"), to deal
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func initBsdClause3() {
 Licenses["bsd"] = License{
  Name:            "NewBSD",
  PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
  Header: `All rights reserved.

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func initApache2() {
 Licenses["apache"] = License{
  Name:            "Apache 2.0",
  PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
  Header: `
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}
}

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Paul Borman <borman@google.com>
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  PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
  Header: `
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copy of the library already present on the user's computer system,
rather than copying
library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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package cmd

func initGpl3() {
 Licenses["gpl3"] = License{
  Name: "GNU General Public License 3.0",
  PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
  Header: `
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`,
 }
}
package cmd

func initAgpl() {
 Licenses["agpl"] = License{
  Name:           "GNU Affero General Public License",
  PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
  Header: `
This program is free software: you can redistribute it and/or modify
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package cmd

import (
 "strings"
 "time"

 "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the
 header to be used with each file on the file's creating, and the text
// of the license
type License struct {
 Name            string   // The type of license in use
 PossibleMatches []string // Similar names to guess
 Text            string   // License text data
 Header          string   // License header for source files
}

func init() {
 // Allows a user to not use a license.
 Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

 initApache2()
 initMit()
 initBsdClause3()
 initBsdClause2()
 initGpl2()
 initGpl3()
 initLgpl()
 initAgpl()
}

// getLicense returns license specified by user in flag or in config.
```

```
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
 // If explicitly flagged, use that.
 if userLicense != "" {
  return findLicense(userLicense)
 }

 // If user wants to have custom license, use that.
 if viper.IsSet("license.header") || viper.IsSet("license.text")
 {
  return License{Header: viper.GetString("license.header"),
   Text: viper.GetString("license.text")}
 }

 // If user wants to have built-in license, use that.
 if viper.IsSet("license") {
  return findLicense(viper.GetString("license"))
 }

 // If user didn't set any license, use Apache 2.0 by default.
 return Licenses["apache"]
}

func copyrightLine() string {
 author := viper.GetString("author")

 year := viper.GetString("year") // For tests.
 if year == "" {
  year = time.Now().Format("2006")
 }

 return "Copyright  " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
 found := matchLicense(name)
 if found == "" {
  er("unknown license: " + name)
 }
 return Licenses[found]
}

// matchLicense compares the given a license name
```

```
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank
 string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
 if name == "" {
  return ""
 }

 for key, lic := range Licenses {
  for _, match := range lic.PossibleMatches {
   if strings.EqualFold(name, match) {
    return key
   }
  }
 }

 return ""
}
```

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1.413 cloud-init 22.1

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1.414 urllib3 1.25.7

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Contributions to the urllib3 project

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* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool

 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>

 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield
 <https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>

 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer
 <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded
 requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
 improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>

 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
 * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai
 (through Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>

* Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
 HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]

1.415 python-pbr 3.1.1-2.el7ost

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1.416 paramiko 1.17.6-2.ph1

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1.417 libc 2.27-3ubuntu1

1.418 shim 0.8-0ubuntu2

1.418.1 Available under license :

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1.419 six 1.14.0

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1.420 pathlib 2.3.5

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1.421 importlib-metadata 1.5.2

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1.422 jinja2 2.11.3

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1.423 python-pysocks 1.6.8-5.el7

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1.424 pycparser 2.20

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1.425 python-requests 2.23.0

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1.426 tpm-tools 1.3.8-6.el7

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1.427 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.

-- Dave

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1.428 python-setuptools 56.0.0

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1.429 distro 1.5.0-1.ph4

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1.430 python-certifi 2019.11.28

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file (certdata.txt). This file can be found in the mozilla source tree:
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1.431 arptables 0.0.4-7.el7

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1.432 attrs 19.3.0

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1.433 ncclient 0.6.9

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1.434 cgroup-lite 1.11-ubuntu14.04.2

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1.435 oauthlib 2.0.6

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1.436 ndg-httpsclient 0.5.1-4.ph4

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1.437 webcolors 1.8.1

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1.438 python-lxml 4.5.0

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1.439 pyopenssl 19.1.0

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Metadata-Version: 2.1
Name: example
Version: 21.12
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: Apache Software License
Platform: UNKNOWN

UNKNOWN

Found in path(s):
* /example-21-12-dist-info-zip/inputdir/packages_extracted/wheel/127/example-21.12.dist-info/METADATA

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