



Open Source Used In NX-OS System Software 10.3(3)F

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1.2 gnutls 3.6.14

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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1.4 python-setuptools 56.0.0

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1.7 incron 0.5.10-r0

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- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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```
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```

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inotify cron system

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

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1.8 acl 2.2.52-r0

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When a "work that uses the Library" uses material from a header file

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

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1.11 libtommath 0.42.0

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1.12 expat 2.2.9

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1.13 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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1.14 initscripts 1.0-r155

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1.15 Izo 2.10

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1.16 iputils 20180629

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1.17 apr-util 1.6.1

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See crypto/crypt_blowfish.c for more information.

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1.18 cryptography 3.3.2

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```
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```

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```
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```

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

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1.20 apr 1.6.3

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

```
/*  
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

- * Based on libdl (dlfcn.c/dlfcn.h) which is
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
Copyright (C) 2000 by Martin Pool <mbp@humblebug.org.au>

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From strings/apr_sprintf.c:

```
*  
* cvt - IEEE floating point formatting routines.  
*   Derived from UNIX V7, Copyright(C) Caldera International Inc.  
*
```

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1.21 gpgme 1.11.1

1.21.1 Available under license :

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```
/* gpgme.h - Public interface to GnuPG Made Easy.          -*- c -*-
* Copyright (C) 2000 Werner Koch (dd9jn)
* Copyright (C) 2001-2018 g10 Code GmbH
*
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*
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* SPDX-License-Identifier: LGPL-2.1+
*
* Generated from gpgme.h.in for x86_64-w64-mingw32.
*/
/* The expert level at which a configuration option or group of
* options should be displayed. See the gpgconf(1) documentation for
* more details. */
```

Found in path(s):

```
* /opt/cola/permits/1451491045_1666726244.1772764/0/rwinlib-gpgme-v1-11-1-0-g11a2968-1-tar-gz/rwinlib-
```

gpgme-11a2968/include/gpgme.h

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```
/* assuan.h - Definitions for the Assuan IPC library      -*- c -*-
* Copyright (C) 2001-2013 Free Software Foundation, Inc.
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*
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*
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* License along with this program; if not, see <http://www.gnu.org/licenses/>.
* SPDX-License-Identifier: LGPL-2.1+
*
* Do not edit. Generated from assuan.h.in by mkheader for mingw32.
*/
/* This flag indicates whether Assuan logging is in confidential mode.
   You can use assuan_{begin,end}_confidential to change the mode. */
/* Same as assuan_set_flag (ctx, ASSUAN_CONFIDENTIAL, 1). */
/* Same as assuan_set_flag (ctx, ASSUAN_CONFIDENTIAL, 0). */
```

Found in path(s):

`/opt/cola/permits/1451491045_1666726244.1772764/0/rwinlib-gpgme-v1-11-1-0-g11a2968-1-tar-gz/rwinlib-gpgme-11a2968/include/assuan.h`

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```
/* gpg-error.h or gpg-rt.h - Common code for GnuPG and others.  -*- c -*-
* Copyright (C) 2001-2018 g10 Code GmbH
*
* This file is part of libgpg-error (aka libgpg-rt).
*
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*
* libgpg-error is distributed in the hope that it will be useful, but
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```


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*
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* License along with this program; if not, see <<https://www.gnu.org/licenses/>>.
* SPDX-License-Identifier: LGPL-2.1+
*
* Do not edit. Generated from gpg-error.h.in for:
 x86_64-w64-mingw32
*/

Found in path(s):

* /opt/cola/permits/1451491045_1666726244.1772764/0/rwinlib-gpgme-v1-11-1-0-g11a2968-1-tar-gz/rwinlib-gpgme-11a2968/include/gpg-error.h
* /opt/cola/permits/1451491045_1666726244.1772764/0/rwinlib-gpgme-v1-11-1-0-g11a2968-1-tar-gz/rwinlib-gpgme-11a2968/include/gpg.h

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/opt/cola/permits/1451491045_1666726244.1772764/0/rwinlib-gpgme-v1-11-1-0-g11a2968-1-tar-gz/rwinlib-gpgme-11a2968/bin/gpg.exe: binary file matches
/opt/cola/permits/1451491045_1666726244.1772764/0/rwinlib-gpgme-v1-11-1-0-g11a2968-1-tar-gz/rwinlib-gpgme-11a2968/lib/i386/libassuan.a: binary file matches
/opt/cola/permits/1451491045_1666726244.1772764/0/rwinlib-gpgme-v1-11-1-0-g11a2968-1-tar-gz/rwinlib-gpgme-11a2968/lib/i386/libgpg-error.a: binary file matches
/opt/cola/permits/1451491045_1666726244.1772764/0/rwinlib-gpgme-v1-11-1-0-g11a2968-1-tar-gz/rwinlib-gpgme-11a2968/lib/x64/libassuan.a: binary file matches
/opt/cola/permits/1451491045_1666726244.1772764/0/rwinlib-gpgme-v1-11-1-0-g11a2968-1-tar-gz/rwinlib-gpgme-11a2968/lib/x64/libgpg-error.a: binary file matches

Found in path(s):

* /bin/grep

1.22 json-c 0.13.1

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1.23 mpclib 1.1.0

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1.29 psutil 5.8.0

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1.30 Im-sensors 3.4.0-r0

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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

* Merlin Hughes

Original author of sensord.

* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

1.31 zlib 1.2.3

1.31.1 Available under license :

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

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1.32 binutils 2.36.1

1.32.1 Available under license :

(This file is under construction.) -*- text -*-

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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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@c Local Variables:
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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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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.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(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

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1.33 xinetd 2.3.3

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1.34 pnp 2.0.0

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1.37 shadow-securetty 4.6-r3

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1.40 dmidecode 3.5

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1.42 python 3.8.14

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

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

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

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

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

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

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```
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```

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```
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concluded that weaker conditions might promote sharing better.

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# 1.49 libdevmapper 1.02.149

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# 1.51 blas 3.8.0

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# Contributions to the OpenBLAS project

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## Active Developers

\* Wang Qian <traz0824@gmail.com>

\* Optimize BLAS3 on ICT Loongson 3A.

\* Optimize BLAS3 on Intel Sandy Bridge.

\* Werner Saar <wernsaar@googlemail.com>

\* [2013-03-04] Optimize AVX and FMA4 DGEMM on AMD Bulldozer

\* [2013-04-27] Optimize AVX and FMA4 TRSM on AMD Bulldozer

\* [2013-06-09] Optimize AVX and FMA4 SGEMM on AMD Bulldozer

\* [2013-06-11] Optimize AVX and FMA4 ZGEMM on AMD Bulldozer

\* [2013-06-12] Optimize AVX and FMA4 CGEMM on AMD Bulldozer

\* [2013-06-16] Optimize dgemv\_n kernel on AMD Bulldozer

\* [2013-06-20] Optimize ddot, daxpy kernel on AMD Bulldozer

\* [2013-06-21] Optimize dcopy kernel on AMD Bulldozer

\* Porting and Optimization on ARM Cortex-A9

\* Optimization on AMD Piledriver

\* Optimization on Intel Haswell

## Previous Developers

\* Zaheer Chothia <zaheer.chothia@gmail.com>

\* Improve the compatibility about complex number

\* Build LAPACKE: C interface to LAPACK

\* Improve the windows build.

\* Chen Shaohu <huhumartinwar@gmail.com>

\* Optimize GEMV on the Loongson 3A processor.

\* Luo Wen

\* Intern. Test Level-2 BLAS.

## ## Contributors

In chronological order:

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\* [2011-06-11] Make USE\_OPENMP=0 disable openmp.

\* Stefan Karpinski <[stefan@karpinski.org](mailto:stefan@karpinski.org)>

\* [2011-12-28] Fix a bug about SystemStubs on Mac OS X.

\* Alexander Eberspcher <<https://github.com/aegerspaecher>>

\* [2012-05-02] Add note on patch for segfaults on Linux kernel 2.6.32.

\* Mike Nolta <[mike@nolta.net](mailto:mike@nolta.net)>

\* [2012-05-19] Fix building bug on FreeBSD and NetBSD.

\* Sylvestre Ledru <<https://github.com/sylvestre>>

\* [2012-07-01] Improve the detection of sparc. Fix building bug under Hurd and kfreebsd.

\* Jameson Nash <<https://github.com/vtjnash>>

\* [2012-08-20] Provide support for passing CFLAGS, FFLAGS, PFLAGS, FPFLAGS to make on the command line.

\* Alexander Nasonov <[alnsn@yandex.ru](mailto:alnsn@yandex.ru)>

\* [2012-11-10] Fix NetBSD build.

\* Sbastien Villemot <[sebastien@debian.org](mailto:sebastien@debian.org)>

\* [2012-11-14] Fix compilation with TARGET=GENERIC. Patch applied to Debian package.

\* [2013-08-28] Avoid failure on qemu guests declaring an Athlon CPU without 3dnow!

\* Kang-Che Sung <[Explorer09@gmail.com](mailto:Explorer09@gmail.com)>

\* [2013-05-17] Fix typo in the document. Re-order the architecture list in getarch.c.

\* Kenneth Hoste <[kenneth.hoste@gmail.com](mailto:kenneth.hoste@gmail.com)>

\* [2013-05-22] Adjust Makefile about downloading LAPACK source files.

\* Lei WANG <<https://github.com/wlbksy>>

\* [2013-05-22] Fix a bug about wget.

\* Dan Luu <<http://www.linkedin.com/in/danluu>>

\* [2013-06-30] Add Intel Haswell support (using sandybridge optimizations).

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

\* [2013-07-11] create openblas\_get\_parallel to retrieve information which parallelization model is used by OpenBLAS.

- \* Elliot Saba <staticfloat@gmail.com>
- \* [2013-07-22] Add in return value for `interface/trtri.c`
  
- \* Sbastien Fabbro <bicatali@gentoo.org>
- \* [2013-07-24] Modify makefile to respect user's LDFLAGS
- \* [2013-07-24] Add stack markings for GNU as arch-independent for assembler files
  
- \* Viral B. Shah <viral@mayin.org>
- \* [2013-08-21] Patch LAPACK XLASD4.f as discussed in JuliaLang/julia#2340
  
- \* Lars Buitinck <https://github.com/larsmans>
- \* [2013-08-28] get rid of the generated cblas\_noconst.h file
- \* [2013-08-28] Missing threshold in gemm.c
- \* [2013-08-28] fix default prefix handling in makefiles
  
- \* yieldthought <https://github.com/yieldthought>
- \* [2013-10-08] Remove -Wl,--retain-symbols-file from dynamic link line to fix tool support
  
- \* Keno Fischer <https://github.com/loladiro>
- \* [2013-10-23] Use FC instead of CC to link the dynamic library on OS X
  
- \* Christopher Meng <cickumqt@gmail.com>
- \* [2013-12-09] Add DESTDIR support for easier building on RPM based distros.  
Use install command instead of cp to install files with permissions control.
  
- \* Lucas Beyer <lucasb.eyer.be@gmail.com>
- \* [2013-12-10] Added support for NO\_SHARED in make install.
  
- \* carlkl <https://github.com/carlkl>
- \* [2013-12-13] Fixed LAPACKE building bug on Windows
  
- \* Isaac Dunham <https://github.com/idunham>
- \* [2014-08-03] Fixed link error on Linux/musl
  
- \* Dave Nuechterlein
- \* [2014-10-10] trmm and sgemm kernels (optimized for APM's X-Gene 1).  
ARMv8 support.
  
- \* Jerome Robert <jeromerobert@gmx.com>
- \* [2015-01-01] Speed-up small `ger` and `gemv` using stack allocation (bug #478)
- \* [2015-12-23] `stack\_check` in `gemv.c` (bug #722)
- \* [2015-12-28] Allow to force the number of parallel make job
- \* [2015-12-28] Fix detection of AMD E2-3200 detection
- \* [2015-12-31] Let `make MAX\_STACK\_ALLOC=0` do what expected
- \* [2016-01-19] Disable multi-threading in `ger` and `swap` for small matrices (bug #731)
- \* [2016-01-24] Use `GEMM\_MULTITHREAD\_THRESHOLD` as a number of ops (bug #742)
- \* [2016-01-26] Let `openblas\_get\_num\_threads` return the number of active threads (bug #760)

\* [2016-01-30] Speed-up small `zger`, `zgemv`, `ztrmv` using stack allocation (bug #727)

\* Dan Kortschak

\* [2015-01-07] Added test for drotmg bug #484.

\* Ton van den Heuvel <<https://github.com/ton>>

\* [2015-03-18] Fix race condition during shutdown causing a crash in gotoblas\_set\_affinity().

\* Martin Koehler <<https://github.com/grisuthedragon/>>

\* [2015-09-07] Improved imatcopy

\* Ashwin Sekhar T K <<https://github.com/ashwinyes/>>

\* [2015-11-09] Assembly kernels for Cortex-A57 (ARMv8)

\* [2015-11-20] lapack-test fixes for Cortex-A57

\* [2016-03-14] Additional functional Assembly Kernels for Cortex-A57

\* [2016-03-14] Optimize Dgemm 4x4 for Cortex-A57

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

\* [2016-03-20] Fix compiler error in VisualStudio with CMake

\* [2016-03-22] Fix access violation on Windows while static linking

\* Paul Mustire <<https://github.com/buffer51/>>

\* [2016-02-04] Fix Android build on ARMV7

\* [2016-04-26] Android build with LAPACK for ARMV7 & ARMV8

\* Shivraj Patil <<https://github.com/sva-img/>>

\* [2016-05-03] DGEMM optimization for MIPS P5600 and I6400 using MSA

\* Kaustubh Raste <<https://github.com/ksraste/>>

\* [2016-05-09] DTRSM optimization for MIPS P5600 and I6400 using MSA

\* [2016-05-20] STRSM optimization for MIPS P5600 and I6400 using MSA

\* Abdelrauf <<https://github.com/quickwritereader>>

\* [2017-01-01] dgemm and dtrmm kernels for IBM z13

\* [2017-02-26] ztrmm kernel for IBM z13

\* [2017-03-13] strmm and ctrmm kernel for IBM z13

\* [2017-09-01] initial Blas Level-1,2 (double precision) for IBM z13

\* [2018-03-07] added missing Blas Level 1-2 (double precision) simd codes

\* [2019-02-01] added missing Blas Level-1,2 (single precision) simd codes

\* [2019-03-14] power9 dgemm/dtrmm kernel

\* [2019-04-29] power9 sgemm/strmm kernel

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## 1.54 gperftools 2.0

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# 1.55 ncftp 3.2.2

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## 1.58 golang 1.5.3

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## 1.59 scapy 1.10.0

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```
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```

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

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

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

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```
{
"testfiles": [
 "test/*.uts",
 "test/contrib/*.uts"
],
"remove_testfiles": [
 "test/linux.uts",
 "test/windows.uts",
 "test/contrib/cansocket_native.uts",
 "test/contrib/cansocket_python_can.uts"
],
"onlyfailed": true,
"preexec": {
```



```

"test/contrib/*.uts": "load_contrib(\"%name%\")",
"test/cert.uts": "load_layer(\"tls\")",
"test/ssl2.uts": "load_layer(\"tls\")",
"test/tls*.uts": "load_layer(\"tls\")"
},
"format": "text",
"kw_ko": [
 "linux",
 "windows",
 "crypto_advanced",
 "ipv6",
 "vcan_socket"
]
}

```

# 1.60 sqlite 3.40.1

## 1.60.1 Available under license :

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```

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>

```

\*\* <dd>There are no arguments to this option. ^This option sets the  
 \*\* [threading mode] to Multi-thread. In other words, it disables  
 \*\* mutexing on [database connection] and [prepared statement] objects.  
 \*\* The application is responsible for serializing access to  
 \*\* [database connections] and [prepared statements]. But other mutexes  
 \*\* are enabled so that SQLite will be safe to use in a multi-threaded  
 \*\* environment as long as no two threads attempt to use the same  
 \*\* [database connection] at the same time. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* it is not possible to set the Multi-thread [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_MULTITHREAD configuration option.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SERIALIZED]] <dt>SQLITE\_CONFIG\_SERIALIZED</dt>  
 \*\* <dd>There are no arguments to this option. ^This option sets the  
 \*\* [threading mode] to Serialized. In other words, this option enables  
 \*\* all mutexes including the recursive  
 \*\* mutexes on [database connection] and [prepared statement] objects.  
 \*\* In this mode (which is the default when SQLite is compiled with  
 \*\* [SQLITE\_THREADSAFE=1]) the SQLite library will itself serialize access  
 \*\* to [database connections] and [prepared statements] so that the  
 \*\* application is free to use the same [database connection] or the  
 \*\* same [prepared statement] in different threads at the same time.  
 \*\* ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* it is not possible to set the Serialized [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_SERIALIZED configuration option.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MALLOC]] <dt>SQLITE\_CONFIG\_MALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MALLOC option takes a single argument which is  
 \*\* a pointer to an instance of the [sqlite3\_mem\_methods] structure.  
 \*\* The argument specifies  
 \*\* alternative low-level memory allocation routines to be used in place of  
 \*\* the memory allocation routines built into SQLite.)^ ^SQLite makes  
 \*\* its own private copy of the content of the [sqlite3\_mem\_methods] structure  
 \*\* before the [sqlite3\_config()] call returns.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETMALLOC]] <dt>SQLITE\_CONFIG\_GETMALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETMALLOC option takes a single argument which  
 \*\* is a pointer to an instance of the [sqlite3\_mem\_methods] structure.  
 \*\* The [sqlite3\_mem\_methods]  
 \*\* structure is filled with the currently defined memory allocation routines.)^  
 \*\* This option can be used to overload the default memory allocation  
 \*\* routines with a wrapper that simulations memory allocation failure or  
 \*\* tracks memory usage, for example. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SMALL\_MALLOC]] <dt>SQLITE\_CONFIG\_SMALL\_MALLOC</dt>

\*\* <dd> ^The `SQLITE_CONFIG_SMALL_MALLOC` option takes single argument of  
 \*\* type `int`, interpreted as a boolean, which if true provides a hint to  
 \*\* SQLite that it should avoid large memory allocations if possible.  
 \*\* SQLite will run faster if it is free to make large memory allocations,  
 \*\* but some application might prefer to run slower in exchange for  
 \*\* guarantees about memory fragmentation that are possible if large  
 \*\* allocations are avoided. This hint is normally off.  
 \*\* </dd>  
 \*\*  
 \*\* [[`SQLITE_CONFIG_MEMSTATUS`]] <dt>`SQLITE_CONFIG_MEMSTATUS`</dt>  
 \*\* <dd> ^The `SQLITE_CONFIG_MEMSTATUS` option takes single argument of type `int`,  
 \*\* interpreted as a boolean, which enables or disables the collection of  
 \*\* memory allocation statistics. ^When memory allocation statistics are  
 \*\* disabled, the following SQLite interfaces become non-operational:  
 \*\* <ul>  
 \*\* <li> `[sqlite3_hard_heap_limit64()]`  
 \*\* <li> `[sqlite3_memory_used()]`  
 \*\* <li> `[sqlite3_memory_highwater()]`  
 \*\* <li> `[sqlite3_soft_heap_limit64()]`  
 \*\* <li> `[sqlite3_status64()]`  
 \*\* </ul>^  
 \*\* ^Memory allocation statistics are enabled by default unless SQLite is  
 \*\* compiled with `[SQLITE_DEFAULT_MEMSTATUS]=0` in which case memory  
 \*\* allocation statistics are disabled by default.  
 \*\* </dd>  
 \*\*  
 \*\* [[`SQLITE_CONFIG_SCRATCH`]] <dt>`SQLITE_CONFIG_SCRATCH`</dt>  
 \*\* <dd> The `SQLITE_CONFIG_SCRATCH` option is no longer used.  
 \*\* </dd>  
 \*\*  
 \*\* [[`SQLITE_CONFIG_PAGECACHE`]] <dt>`SQLITE_CONFIG_PAGECACHE`</dt>  
 \*\* <dd> ^The `SQLITE_CONFIG_PAGECACHE` option specifies a memory pool  
 \*\* that SQLite can use for the database page cache with the default page  
 \*\* cache implementation.  
 \*\* This configuration option is a no-op if an application-defined page  
 \*\* cache implementation is loaded using the `[SQLITE_CONFIG_PCACHE2]`.  
 \*\* ^There are three arguments to `SQLITE_CONFIG_PAGECACHE`: A pointer to  
 \*\* 8-byte aligned memory (`pMem`), the size of each page cache line (`sz`),  
 \*\* and the number of cache lines (`N`).  
 \*\* The `sz` argument should be the size of the largest database page  
 \*\* (a power of two between 512 and 65536) plus some extra bytes for each  
 \*\* page header. ^The number of extra bytes needed by the page header  
 \*\* can be determined using `[SQLITE_CONFIG_PCACHE_HDRSZ]`.  
 \*\* ^It is harmless, apart from the wasted memory,  
 \*\* for the `sz` parameter to be larger than necessary. The `pMem`  
 \*\* argument must be either a `NULL` pointer or a pointer to an 8-byte  
 \*\* aligned block of memory of at least `sz*N` bytes, otherwise  
 \*\* subsequent behavior is undefined.

\*\* ^When pMem is not NULL, SQLite will strive to use the memory provided  
 \*\* to satisfy page cache needs, falling back to [sqlite3\_malloc()] if  
 \*\* a page cache line is larger than sz bytes or if all of the pMem buffer  
 \*\* is exhausted.

\*\* ^If pMem is NULL and N is non-zero, then each database connection  
 \*\* does an initial bulk allocation for page cache memory  
 \*\* from [sqlite3\_malloc()] sufficient for N cache lines if N is positive or  
 \*\* of -1024\*N bytes if N is negative, . ^If additional  
 \*\* page cache memory is needed beyond what is provided by the initial  
 \*\* allocation, then SQLite goes to [sqlite3\_malloc()] separately for each  
 \*\* additional cache line. </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_HEAP]] <dt>SQLITE\_CONFIG\_HEAP</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_HEAP option specifies a static memory buffer  
 \*\* that SQLite will use for all of its dynamic memory allocation needs  
 \*\* beyond those provided for by [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* ^The SQLITE\_CONFIG\_HEAP option is only available if SQLite is compiled  
 \*\* with either [SQLITE\_ENABLE\_MEMSYS3] or [SQLITE\_ENABLE\_MEMSYS5] and returns  
 \*\* [SQLITE\_ERROR] if invoked otherwise.

\*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:  
 \*\* An 8-byte aligned pointer to the memory,  
 \*\* the number of bytes in the memory buffer, and the minimum allocation size.  
 \*\* ^If the first pointer (the memory pointer) is NULL, then SQLite reverts  
 \*\* to using its default memory allocator (the system malloc() implementation),  
 \*\* undoing any prior invocation of [SQLITE\_CONFIG\_MALLOC]. ^If the  
 \*\* memory pointer is not NULL then the alternative memory  
 \*\* allocator is engaged to handle all of SQLites memory allocation needs.  
 \*\* The first pointer (the memory pointer) must be aligned to an 8-byte  
 \*\* boundary or subsequent behavior of SQLite will be undefined.  
 \*\* The minimum allocation size is capped at 2\*\*12. Reasonable values  
 \*\* for the minimum allocation size are 2\*\*5 through 2\*\*8.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MUTEX]] <dt>SQLITE\_CONFIG\_MUTEX</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MUTEX option takes a single argument which is a  
 \*\* pointer to an instance of the [sqlite3\_mutex\_methods] structure.  
 \*\* The argument specifies alternative low-level mutex routines to be used  
 \*\* in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of  
 \*\* the content of the [sqlite3\_mutex\_methods] structure before the call to  
 \*\* [sqlite3\_config()] returns. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_MUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_GETMUTEX]] <dt>SQLITE\_CONFIG\_GETMUTEX</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETMUTEX option takes a single argument which  
 \*\* is a pointer to an instance of the [sqlite3\_mutex\_methods] structure. The  
 \*\* [sqlite3\_mutex\_methods]

\*\* structure is filled with the currently defined mutex routines.)^  
 \*\* This option can be used to overload the default mutex allocation  
 \*\* routines with a wrapper used to track mutex usage for performance  
 \*\* profiling or testing, for example. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_GETMUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_LOOKASIDE]] <dt>SQLITE\_CONFIG\_LOOKASIDE</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_LOOKASIDE option takes two arguments that determine  
 \*\* the default size of lookaside memory on each [database connection].  
 \*\* The first argument is the  
 \*\* size of each lookaside buffer slot and the second is the number of  
 \*\* slots allocated to each database connection.)^ ^(SQLITE\_CONFIG\_LOOKASIDE  
 \*\* sets the <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]  
 \*\* option to [sqlite3\_db\_config()] can be used to change the lookaside  
 \*\* configuration on individual connections.)^ </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE2]] <dt>SQLITE\_CONFIG\_PCACHE2</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_PCACHE2 option takes a single argument which is  
 \*\* a pointer to an [sqlite3\_pcache\_methods2] object. This object specifies  
 \*\* the interface to a custom page cache implementation.)^  
 \*\* ^SQLite makes a copy of the [sqlite3\_pcache\_methods2] object.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETPCACHE2]] <dt>SQLITE\_CONFIG\_GETPCACHE2</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_GETPCACHE2 option takes a single argument which  
 \*\* is a pointer to an [sqlite3\_pcache\_methods2] object. SQLite copies of  
 \*\* the current page cache implementation into that object.)^ </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_LOG]] <dt>SQLITE\_CONFIG\_LOG</dt>  
 \*\* <dd> The SQLITE\_CONFIG\_LOG option is used to configure the SQLite  
 \*\* global [error log].  
 \*\* (^The SQLITE\_CONFIG\_LOG option takes two arguments: a pointer to a  
 \*\* function with a call signature of void\*(\*)(void\*,int,const char\*),  
 \*\* and a pointer to void. ^If the function pointer is not NULL, it is  
 \*\* invoked by [sqlite3\_log()] to process each logging event. ^If the  
 \*\* function pointer is NULL, the [sqlite3\_log()] interface becomes a no-op.  
 \*\* ^The void pointer that is the second argument to SQLITE\_CONFIG\_LOG is  
 \*\* passed through as the first parameter to the application-defined logger  
 \*\* function whenever that function is invoked. ^The second parameter to  
 \*\* the logger function is a copy of the first parameter to the corresponding  
 \*\* [sqlite3\_log()] call and is intended to be a [result code] or an  
 \*\* [extended result code]. ^The third parameter passed to the logger is  
 \*\* log message after formatting via [sqlite3\_snprintf()].  
 \*\* The SQLite logging interface is not reentrant; the logger function  
 \*\* supplied by the application must not invoke any SQLite interface.  
 \*\* In a multi-threaded application, the application-defined logger

\*\* function must be threadsafe. </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_URI]] <dt>SQLITE\_CONFIG\_URI

\*\* <dd>^(The SQLITE\_CONFIG\_URI option takes a single argument of type int.

\*\* If non-zero, then URI handling is globally enabled. If the parameter is zero,

\*\* then URI handling is globally disabled.)^ ^If URI handling is globally

\*\* enabled, all filenames passed to [sqlite3\_open()], [sqlite3\_open\_v2()],

\*\* [sqlite3\_open16()] or

\*\* specified as part of [ATTACH] commands are interpreted as URIs, regardless

\*\* of whether or not the [SQLITE\_OPEN\_URI] flag is set when the database

\*\* connection is opened. ^If it is globally disabled, filenames are

\*\* only interpreted as URIs if the SQLITE\_OPEN\_URI flag is set when the

\*\* database connection is opened. ^By default, URI handling is globally

\*\* disabled. The default value may be changed by compiling with the

\*\* [SQLITE\_USE\_URI] symbol defined.)^

\*\*

\*\* [[SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN]] <dt>SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN

\*\* <dd>^The SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN option takes a single integer

\*\* argument which is interpreted as a boolean in order to enable or disable

\*\* the use of covering indices for full table scans in the query optimizer.

\*\* ^The default setting is determined

\*\* by the [SQLITE\_ALLOW\_COVERING\_INDEX\_SCAN] compile-time option, or is "on"

\*\* if that compile-time option is omitted.

\*\* The ability to disable the use of covering indices for full table scans

\*\* is because some incorrectly coded legacy applications might malfunction

\*\* when the optimization is enabled. Providing the ability to

\*\* disable the optimization allows the older, buggy application code to work

\*\* without change even with newer versions of SQLite.

\*\*

\*\* [[SQLITE\_CONFIG\_PCACHE]] [[SQLITE\_CONFIG\_GETPCACHE]]

\*\* <dt>SQLITE\_CONFIG\_PCACHE and SQLITE\_CONFIG\_GETPCACHE

\*\* <dd> These options are obsolete and should not be used by new code.

\*\* They are retained for backwards compatibility but are now no-ops.

\*\* </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_SQLLOG]]

\*\* <dt>SQLITE\_CONFIG\_SQLLOG

\*\* <dd>This option is only available if sqlite is compiled with the

\*\* [SQLITE\_ENABLE\_SQLLOG] pre-processor macro defined. The first argument should

\*\* be a pointer to a function of type void(\*)(void\*,sqlite3\*,const char\*, int).

\*\* The second should be of type (void\*). The callback is invoked by the library

\*\* in three separate circumstances, identified by the value passed as the

\*\* fourth parameter. If the fourth parameter is 0, then the database connection

\*\* passed as the second argument has just been opened. The third argument

\*\* points to a buffer containing the name of the main database file. If the

\*\* fourth parameter is 1, then the SQL statement that the third parameter

\*\* points to has just been executed. Or, if the fourth parameter is 2, then

\*\* the connection being passed as the second parameter is being closed. The

\*\* third parameter is passed NULL In this case. An example of using this  
 \*\* configuration option can be seen in the "test\_sqllog.c" source file in  
 \*\* the canonical SQLite source tree.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MMAP\_SIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_MMAP\_SIZE  
 \*\* <dd>^SQLITE\_CONFIG\_MMAP\_SIZE takes two 64-bit integer (sqlite3\_int64) values  
 \*\* that are the default mmap size limit (the default setting for  
 \*\* [PRAGMA mmap\_size]) and the maximum allowed mmap size limit.  
 \*\* ^The default setting can be overridden by each database connection using  
 \*\* either the [PRAGMA mmap\_size] command, or by using the  
 \*\* [SQLITE\_FCNTL\_MMAP\_SIZE] file control. ^(The maximum allowed mmap size  
 \*\* will be silently truncated if necessary so that it does not exceed the  
 \*\* compile-time maximum mmap size set by the  
 \*\* [SQLITE\_MAX\_MMAP\_SIZE] compile-time option.)^  
 \*\* ^If either argument to this option is negative, then that argument is  
 \*\* changed to its compile-time default.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_WIN32\_HEAPSIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_WIN32\_HEAPSIZE  
 \*\* <dd>^The SQLITE\_CONFIG\_WIN32\_HEAPSIZE option is only available if SQLite is  
 \*\* compiled for Windows with the [SQLITE\_WIN32\_MALLOC] pre-processor macro  
 \*\* defined. ^SQLITE\_CONFIG\_WIN32\_HEAPSIZE takes a 32-bit unsigned integer value  
 \*\* that specifies the maximum size of the created heap.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE\_HDRSZ]]  
 \*\* <dt>SQLITE\_CONFIG\_PCACHE\_HDRSZ  
 \*\* <dd>^The SQLITE\_CONFIG\_PCACHE\_HDRSZ option takes a single parameter which  
 \*\* is a pointer to an integer and writes into that integer the number of extra  
 \*\* bytes per page required for each page in [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* The amount of extra space required can change depending on the compiler,  
 \*\* target platform, and SQLite version.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PMASZ]]  
 \*\* <dt>SQLITE\_CONFIG\_PMASZ  
 \*\* <dd>^The SQLITE\_CONFIG\_PMASZ option takes a single parameter which  
 \*\* is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded  
 \*\* sorter to that integer. The default minimum PMA Size is set by the  
 \*\* [SQLITE\_SORTER\_PMASZ] compile-time option. New threads are launched  
 \*\* to help with sort operations when multithreaded sorting  
 \*\* is enabled (using the [PRAGMA threads] command) and the amount of content  
 \*\* to be sorted exceeds the page size times the minimum of the  
 \*\* [PRAGMA cache\_size] setting and this value.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_STMTJRNL\_SPILL]]  
 \*\* <dt>SQLITE\_CONFIG\_STMTJRNL\_SPILL  
 \*\* <dd>^The SQLITE\_CONFIG\_STMTJRNL\_SPILL option takes a single parameter which  
 \*\* becomes the [statement journal] spill-to-disk threshold.

```

** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dd>
** /

```

Found in path(s):

```

* /opt/cola/permits/1541729670_1675313227.6905026/0/sqlite-amalgamation-3400100-zip/sqlite-amalgamation-3400100/sqlite3.h

```

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

```

/* This will be more informative in a later version. */

```

Found in path(s):

```

* /opt/cola/permits/1541729670_1675313227.6905026/0/sqlite-amalgamation-3400100-zip/sqlite-amalgamation-

```



3400100/shell.c

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

```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.

```

\*\* In this mode (which is the default when SQLite is compiled with  
 \*\* [SQLITE\_THREADSAFE=1]) the SQLite library will itself serialize access  
 \*\* to [database connections] and [prepared statements] so that the  
 \*\* application is free to use the same [database connection] or the  
 \*\* same [prepared statement] in different threads at the same time.  
 \*\* ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* it is not possible to set the Serialized [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_SERIALIZED configuration option.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MALLOC]] <dt>SQLITE\_CONFIG\_MALLOC</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_MALLOC option takes a single argument which is  
 \*\* a pointer to an instance of the [sqlite3\_mem\_methods] structure.  
 \*\* The argument specifies  
 \*\* alternative low-level memory allocation routines to be used in place of  
 \*\* the memory allocation routines built into SQLite.)^ ^SQLite makes  
 \*\* its own private copy of the content of the [sqlite3\_mem\_methods] structure  
 \*\* before the [sqlite3\_config()] call returns.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETMALLOC]] <dt>SQLITE\_CONFIG\_GETMALLOC</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_GETMALLOC option takes a single argument which  
 \*\* is a pointer to an instance of the [sqlite3\_mem\_methods] structure.  
 \*\* The [sqlite3\_mem\_methods]  
 \*\* structure is filled with the currently defined memory allocation routines.)^  
 \*\* This option can be used to overload the default memory allocation  
 \*\* routines with a wrapper that simulates memory allocation failure or  
 \*\* tracks memory usage, for example. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SMALL\_MALLOC]] <dt>SQLITE\_CONFIG\_SMALL\_MALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_SMALL\_MALLOC option takes single argument of  
 \*\* type int, interpreted as a boolean, which if true provides a hint to  
 \*\* SQLite that it should avoid large memory allocations if possible.  
 \*\* SQLite will run faster if it is free to make large memory allocations,  
 \*\* but some application might prefer to run slower in exchange for  
 \*\* guarantees about memory fragmentation that are possible if large  
 \*\* allocations are avoided. This hint is normally off.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MEMSTATUS]] <dt>SQLITE\_CONFIG\_MEMSTATUS</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MEMSTATUS option takes single argument of type int,  
 \*\* interpreted as a boolean, which enables or disables the collection of  
 \*\* memory allocation statistics. ^(When memory allocation statistics are  
 \*\* disabled, the following SQLite interfaces become non-operational:  
 \*\* <ul>  
 \*\* <li> [sqlite3\_hard\_heap\_limit64()]  
 \*\* <li> [sqlite3\_memory\_used()]  
 \*\* <li> [sqlite3\_memory\_highwater()]

```

** [sqlite3_soft_heap_limit64()]
** [sqlite3_status64()]
**)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns

```

\*\* [SQLITE\_ERROR] if invoked otherwise.

\*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:

\*\* An 8-byte aligned pointer to the memory,  
 \*\* the number of bytes in the memory buffer, and the minimum allocation size.

\*\* ^If the first pointer (the memory pointer) is NULL, then SQLite reverts  
 \*\* to using its default memory allocator (the system malloc() implementation),  
 \*\* undoing any prior invocation of [SQLITE\_CONFIG\_MALLOC]. ^If the  
 \*\* memory pointer is not NULL then the alternative memory  
 \*\* allocator is engaged to handle all of SQLites memory allocation needs.

\*\* The first pointer (the memory pointer) must be aligned to an 8-byte  
 \*\* boundary or subsequent behavior of SQLite will be undefined.

\*\* The minimum allocation size is capped at 2\*\*12. Reasonable values  
 \*\* for the minimum allocation size are 2\*\*5 through 2\*\*8.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MUTEX]] <dt>SQLITE\_CONFIG\_MUTEX</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_MUTEX option takes a single argument which is a  
 \*\* pointer to an instance of the [sqlite3\_mutex\_methods] structure.  
 \*\* The argument specifies alternative low-level mutex routines to be used  
 \*\* in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of  
 \*\* the content of the [sqlite3\_mutex\_methods] structure before the call to  
 \*\* [sqlite3\_config()] returns. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_MUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_GETMUTEX]] <dt>SQLITE\_CONFIG\_GETMUTEX</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_GETMUTEX option takes a single argument which  
 \*\* is a pointer to an instance of the [sqlite3\_mutex\_methods] structure. The  
 \*\* [sqlite3\_mutex\_methods]  
 \*\* structure is filled with the currently defined mutex routines.)^  
 \*\* This option can be used to overload the default mutex allocation  
 \*\* routines with a wrapper used to track mutex usage for performance  
 \*\* profiling or testing, for example. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_GETMUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_LOOKASIDE]] <dt>SQLITE\_CONFIG\_LOOKASIDE</dt>  
 \*\* <dd> ^(The SQLITE\_CONFIG\_LOOKASIDE option takes two arguments that determine  
 \*\* the default size of lookaside memory on each [database connection].  
 \*\* The first argument is the  
 \*\* size of each lookaside buffer slot and the second is the number of  
 \*\* slots allocated to each database connection.)^ ^(SQLITE\_CONFIG\_LOOKASIDE  
 \*\* sets the <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]  
 \*\* option to [sqlite3\_db\_config()] can be used to change the lookaside  
 \*\* configuration on individual connections.)^ </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_PCACHE2]] <dt>SQLITE\_CONFIG\_PCACHE2</dt>

\*\* <dd> ^(The SQLITE\_CONFIG\_PCACHE2 option takes a single argument which is

\*\* a pointer to an [sqlite3\_pcache\_methods2] object. This object specifies

\*\* the interface to a custom page cache implementation.)^

\*\* ^SQLite makes a copy of the [sqlite3\_pcache\_methods2] object.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_GETPCACHE2]] <dt>SQLITE\_CONFIG\_GETPCACHE2</dt>

\*\* <dd> ^(The SQLITE\_CONFIG\_GETPCACHE2 option takes a single argument which

\*\* is a pointer to an [sqlite3\_pcache\_methods2] object. SQLite copies of

\*\* the current page cache implementation into that object.)^ </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_LOG]] <dt>SQLITE\_CONFIG\_LOG</dt>

\*\* <dd> The SQLITE\_CONFIG\_LOG option is used to configure the SQLite

\*\* global [error log].

\*\* (^The SQLITE\_CONFIG\_LOG option takes two arguments: a pointer to a

\*\* function with a call signature of void(\*)(void\*,int,const char\*),

\*\* and a pointer to void. ^If the function pointer is not NULL, it is

\*\* invoked by [sqlite3\_log()] to process each logging event. ^If the

\*\* function pointer is NULL, the [sqlite3\_log()] interface becomes a no-op.

\*\* ^The void pointer that is the second argument to SQLITE\_CONFIG\_LOG is

\*\* passed through as the first parameter to the application-defined logger

\*\* function whenever that function is invoked. ^The second parameter to

\*\* the logger function is a copy of the first parameter to the corresponding

\*\* [sqlite3\_log()] call and is intended to be a [result code] or an

\*\* [extended result code]. ^The third parameter passed to the logger is

\*\* log message after formatting via [sqlite3\_snprintf()].

\*\* The SQLite logging interface is not reentrant; the logger function

\*\* supplied by the application must not invoke any SQLite interface.

\*\* In a multi-threaded application, the application-defined logger

\*\* function must be threadsafe. </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_URI]] <dt>SQLITE\_CONFIG\_URI

\*\* <dd>^(The SQLITE\_CONFIG\_URI option takes a single argument of type int.

\*\* If non-zero, then URI handling is globally enabled. If the parameter is zero,

\*\* then URI handling is globally disabled.)^ ^If URI handling is globally

\*\* enabled, all filenames passed to [sqlite3\_open()], [sqlite3\_open\_v2()],

\*\* [sqlite3\_open16()] or

\*\* specified as part of [ATTACH] commands are interpreted as URIs, regardless

\*\* of whether or not the [SQLITE\_OPEN\_URI] flag is set when the database

\*\* connection is opened. ^If it is globally disabled, filenames are

\*\* only interpreted as URIs if the [SQLITE\_OPEN\_URI] flag is set when the

\*\* database connection is opened. ^By default, URI handling is globally

\*\* disabled. The default value may be changed by compiling with the

\*\* [SQLITE\_USE\_URI] symbol defined.)^

\*\*

\*\* [[SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN]] <dt>SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN

\*\* <dd>^The SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN option takes a single integer

\*\* argument which is interpreted as a boolean in order to enable or disable  
 \*\* the use of covering indices for full table scans in the query optimizer.  
 \*\* ^The default setting is determined  
 \*\* by the [SQLITE\_ALLOW\_COVERING\_INDEX\_SCAN] compile-time option, or is "on"  
 \*\* if that compile-time option is omitted.  
 \*\* The ability to disable the use of covering indices for full table scans  
 \*\* is because some incorrectly coded legacy applications might malfunction  
 \*\* when the optimization is enabled. Providing the ability to  
 \*\* disable the optimization allows the older, buggy application code to work  
 \*\* without change even with newer versions of SQLite.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE]] [[SQLITE\_CONFIG\_GETPCACHE]]  
 \*\* <dt>SQLITE\_CONFIG\_PCACHE and SQLITE\_CONFIG\_GETPCACHE  
 \*\* <dd> These options are obsolete and should not be used by new code.  
 \*\* They are retained for backwards compatibility but are now no-ops.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SQLLOG]]  
 \*\* <dt>SQLITE\_CONFIG\_SQLLOG  
 \*\* <dd>This option is only available if sqlite is compiled with the  
 \*\* [SQLITE\_ENABLE\_SQLLOG] pre-processor macro defined. The first argument should  
 \*\* be a pointer to a function of type void\*(\*)(void\*,sqlite3\*,const char\*, int).  
 \*\* The second should be of type (void\*). The callback is invoked by the library  
 \*\* in three separate circumstances, identified by the value passed as the  
 \*\* fourth parameter. If the fourth parameter is 0, then the database connection  
 \*\* passed as the second argument has just been opened. The third argument  
 \*\* points to a buffer containing the name of the main database file. If the  
 \*\* fourth parameter is 1, then the SQL statement that the third parameter  
 \*\* points to has just been executed. Or, if the fourth parameter is 2, then  
 \*\* the connection being passed as the second parameter is being closed. The  
 \*\* third parameter is passed NULL in this case. An example of using this  
 \*\* configuration option can be seen in the "test\_sqllog.c" source file in  
 \*\* the canonical SQLite source tree.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MMAP\_SIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_MMAP\_SIZE  
 \*\* <dd>^SQLITE\_CONFIG\_MMAP\_SIZE takes two 64-bit integer (sqlite3\_int64) values  
 \*\* that are the default mmap size limit (the default setting for  
 \*\* [PRAGMA mmap\_size]) and the maximum allowed mmap size limit.  
 \*\* ^The default setting can be overridden by each database connection using  
 \*\* either the [PRAGMA mmap\_size] command, or by using the  
 \*\* [SQLITE\_FCNTL\_MMAP\_SIZE] file control. ^(The maximum allowed mmap size  
 \*\* will be silently truncated if necessary so that it does not exceed the  
 \*\* compile-time maximum mmap size set by the  
 \*\* [SQLITE\_MAX\_MMAP\_SIZE] compile-time option.)^  
 \*\* ^If either argument to this option is negative, then that argument is  
 \*\* changed to its compile-time default.  
 \*\*

**\*\* [[SQLITE\_CONFIG\_WIN32\_HEAPSIZE]]**  
**\*\* <dt>SQLITE\_CONFIG\_WIN32\_HEAPSIZE**  
**\*\* <dd>^The SQLITE\_CONFIG\_WIN32\_HEAPSIZE option is only available if SQLite is**  
**\*\* compiled for Windows with the [SQLITE\_WIN32\_MALLOC] pre-processor macro**  
**\*\* defined. ^SQLITE\_CONFIG\_WIN32\_HEAPSIZE takes a 32-bit unsigned integer value**  
**\*\* that specifies the maximum size of the created heap.**  
**\*\***

**\*\* [[SQLITE\_CONFIG\_PCACHE\_HDRSZ]]**  
**\*\* <dt>SQLITE\_CONFIG\_PCACHE\_HDRSZ**  
**\*\* <dd>^The SQLITE\_CONFIG\_PCACHE\_HDRSZ option takes a single parameter which**  
**\*\* is a pointer to an integer and writes into that integer the number of extra**  
**\*\* bytes per page required for each page in [SQLITE\_CONFIG\_PAGECACHE].**  
**\*\* The amount of extra space required can change depending on the compiler,**  
**\*\* target platform, and SQLite version.**  
**\*\***

**\*\* [[SQLITE\_CONFIG\_PMASZ]]**  
**\*\* <dt>SQLITE\_CONFIG\_PMASZ**  
**\*\* <dd>^The SQLITE\_CONFIG\_PMASZ option takes a single parameter which**  
**\*\* is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded**  
**\*\* sorter to that integer. The default minimum PMA Size is set by the**  
**\*\* [SQLITE\_SORTER\_PMASZ] compile-time option. New threads are launched**  
**\*\* to help with sort operations when multithreaded sorting**  
**\*\* is enabled (using the [PRAGMA threads] command) and the amount of content**  
**\*\* to be sorted exceeds the page size times the minimum of the**  
**\*\* [PRAGMA cache\_size] setting and this value.**  
**\*\***

**\*\* [[SQLITE\_CONFIG\_STMTJRNL\_SPILL]]**  
**\*\* <dt>SQLITE\_CONFIG\_STMTJRNL\_SPILL**  
**\*\* <dd>^The SQLITE\_CONFIG\_STMTJRNL\_SPILL option takes a single parameter which**  
**\*\* becomes the [statement journal] spill-to-disk threshold.**  
**\*\* [Statement journals] are held in memory until their size (in bytes)**  
**\*\* exceeds this threshold, at which point they are written to disk.**  
**\*\* Or if the threshold is -1, statement journals are always held**  
**\*\* exclusively in memory.**  
**\*\* Since many statement journals never become large, setting the spill**  
**\*\* threshold to a value such as 64KiB can greatly reduce the amount of**  
**\*\* I/O required to support statement rollback.**  
**\*\* The default value for this setting is controlled by the**  
**\*\* [SQLITE\_STMTJRNL\_SPILL] compile-time option.**  
**\*\***

**\*\* [[SQLITE\_CONFIG\_SORTERREF\_SIZE]]**  
**\*\* <dt>SQLITE\_CONFIG\_SORTERREF\_SIZE**  
**\*\* <dd>The SQLITE\_CONFIG\_SORTERREF\_SIZE option accepts a single parameter**  
**\*\* of type (int) - the new value of the sorter-reference size threshold.**  
**\*\* Usually, when SQLite uses an external sort to order records according**  
**\*\* to an ORDER BY clause, all fields required by the caller are present in the**  
**\*\* sorted records. However, if SQLite determines based on the declared type**  
**\*\* of a table column that its values are likely to be very large - larger**

```

** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dd>
** </dl>
**/
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**

**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
**/
/*
** 2004 May 22
**
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** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**

**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default

```



```

** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
** + for Posix Advisory Locks
** + for no-op locks
** + for dot-file locks
** + for flock() locking
** + for named semaphore locks (VxWorks only)
** + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
** methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
**
**/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
**/

```

Found in path(s):

```

* /opt/cola/permits/1541729670_1675313227.6905026/0/sqlite-amalgamation-3400100-zip/sqlite-amalgamation-3400100/sqlite3.c

```

## 1.61 ebttables 2.0.10+4-r4

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## 1.62 libuv 1.20.3

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```

```
*/
```

```
#ifndef UV_BSD_H
```

```
#define UV_BSD_H
```

```
#define UV_PLATFORM_FS_EVENT_FIELDS
```

```
uv__io_t event_watcher;
```

```
#define UV_IO_PRIVATE_PLATFORM_FIELDS
```

```
int rcount;
```

```
int wcount; \
```

```
#define UV_HAVE_KQUEUE 1
```

```
#endif /* UV_BSD_H */
```

```
Files: *
```

```
=====
```

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```
Files: getopt.c
```

```
=====
```

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

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

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



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

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

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

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

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

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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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That's all there is to it!

@ignore

@c Set file name and title for man page.

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@settitle GNU General Public License

@c man begin SEEALSO

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

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```
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@c man end

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant

contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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## 1.65 kpatch 0.9.5+git0+61fc3f1077-r0



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## 1.68 coreutils 8.30

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## 1.71 util-linux 2.32.1-r0

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 */
NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
```



5 7936 12799 4864 2.4M

6 12544 16127 3584 1.8M

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Version 2.1, February 1999

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```
x ?"U@,5 @mISmIN<GimCN7g1uE
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...
```

```
;9GimCN7g
```

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

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

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

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
```

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

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

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```
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```

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

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The End

## 1.74 unzip 6.0

### 1.74.1 Available under license :

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---

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---

#### FIRST NOTE:

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

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

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

-----

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

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

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

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

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---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards,

filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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

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

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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```

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

```
* MacBinaryIII.h
```



\*  
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\*  
\* Basic encoding and decoding of Macintosh files to the  
\* MacBinary III spec.  
\* -----  
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Regarding the first stipulation, Mr. Smith was tracked down in southern  
California some years back [Samuel H. Smith, The Tool Shop; as of mid-  
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),  
71150.2731@compuserve.com]:

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

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

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-----

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-----

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

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

-----

# 1.75 binutils 2.31.51

## 1.75.1 Available under license :

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Version 2, June 1991

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If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{ }Texts." line with this:

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@c Local Variables:

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

@c 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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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

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

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

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

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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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(This file is under construction.) \*- text -\*-

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This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

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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# 1.76 berkeley-db 5.3.28

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## 1.78 python-setuptools 47.1.0

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```
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```

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```
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```

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```
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```

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

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## 1.80 ncftp 3.2.6

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.82 netbase 5.4-r0

### 1.82.1 Available under license :

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Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns  
<[ajt@debian.org](mailto:ajt@debian.org)> until 2001.

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## 1.83 tdb 1.45.6

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

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

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Index: `tdbsa/tdb.c`

=====  
--- `tdbsa.orig/tdb.c`

+++ `tdbsa/tdb.c`

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

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

\*/

/\*

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

- trivial database library - private includes

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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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23-June-2007

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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:  
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Gadi Oxman, August 1995

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## 1.86 expat 2.2.8

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## 1.87 python-pip 21.2.4

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

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

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

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

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

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7   | 2.6   | 2010 | PSF | yes |

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

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

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

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

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

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

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

Just configure this file as the SSLCertificateFile.#

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| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
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| 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                 |
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\*

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\*

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

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

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

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

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

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# 1.100 libcheck 0.9.5

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Version 2.1, February 1999

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becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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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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.

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## 1.101 glib 2.66.8

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## 1.108 librdkafka 1.3.0

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\*/

src/xxhash.[ch] src/lz4\*.[ch]: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

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regex.c and regex.h from <https://github.com/ccxvii/minilibs> sha 875c33568b5a4aa4fb3dd0c52ea98f7f0e5ca684

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MurMurHash2 Library

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# <http://stackoverflow.com/a/17646775/1821055>

/\* crc32c.c -- compute CRC-32C using the Intel crc32 instruction

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\* Version 1.1 1 Aug 2013 Mark Adler

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at revision 3a0bb77429bd3a61596f5e8a3172445844342120  
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src/xxhash.[ch] src/lz4\*.ch: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

LZ4 Library

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regexp.c and regexp.h from <https://github.com/ccxvii/minilibs> sha 875c33568b5a4aa4fb3dd0c52ea98f7f0e5ca684

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Metadata-Version: 1.1

Name: falcon

Version: 1.1.0

Summary: An unladen web framework for building APIs and app backends.

Home-page: <http://falconframework.org>

Author: Kurt Griffiths

Author-email: [mail@kgriffs.com](mailto:mail@kgriffs.com)

License: Apache 2.0

Description: Falcon |Docs| |Build Status| |codecov.io|

=====

Perfection is finally attained not when there is no longer anything to add, but when there is no longer anything to take away.

\*- Antoine de Saint-Exup@ry\*

Falcon is a `high-performance Python framework <<http://falconframework.org/index.html>>` \_\_ for building cloud APIs. It encourages the REST architectural style, and tries to do as little as possible while remaining `highly effective <<http://falconframework.org/index.html#Benefits>>` \_\_.

#### Quick Links

-----

\* `Read the docs <<https://falcon.readthedocs.io/en/stable>>` \_\_.  
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\* `Hang out in #falconframework on freenode <<https://kiwiirc.com/client/irc.freenode.net/?#falconframework>>` \_\_.

#### Design Goals

-----

**\*\*Fast.\*\*** Cloud APIs need to turn around requests quickly, and make efficient use of hardware. This is particularly important when serving many concurrent requests. Falcon is among the fastest WSGI frameworks available, processing requests `several times faster <<http://falconframework.org/#Metrics>>` \_\_ than other Python web frameworks.

**\*\*Light.\*\*** Only the essentials are included, with *six* and *mimeparse* being the only dependencies outside the standard library. We work hard to keep the code lean, making Falcon easier to test, secure, optimize, and deploy.

**\*\*Flexible.\*\*** Falcon is not opinionated when it comes to talking to databases, rendering content, authorizing requests, etc. You are free to mix and match your own favorite libraries. Falcon apps work with any WSGI server, and run great under `CPython 2.6-2.7, PyPy, Jython 2.7, and CPython 3.3-3.5 <<https://travis-ci.org/falconry/falcon>>` \_\_.

#### Features

-----

- Highly-optimized, extensible code base
- Intuitive routing via URI templates and REST-inspired resource classes
- Easy access to headers and bodies through request and response classes
- DRY request processing via middleware components and hooks
- Idiomatic HTTP error responses



- Straightforward exception handling
- Snappy unit testing through WSGI helpers and mocks
- CPython 2.6-2.7, PyPy, Jython 2.7, and CPython 3.3-3.5 support
- ~20% speed boost when Cython is available

## Who's Using Falcon?

-----

Falcon is used around the world by a growing number of organizations, including:

- 7ideas
- Cronitor
- EMC
- Hurricane Electric
- Leadpages
- OpenStack
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- Shiftgig
- tempfil.es
- Opera Software

If you are using the Falcon framework for a community or commercial project, please consider adding your information to our wiki under [`Who's Using Falcon? <https://github.com/falconry/falcon/wiki/Who's-using-Falcon%3F>`](https://github.com/falconry/falcon/wiki/Who's-using-Falcon%3F)

You might also like to view our [`Add-on Catalog <https://github.com/falconry/falcon/wiki/Add-on-Catalog>`](https://github.com/falconry/falcon/wiki/Add-on-Catalog), where you can find a list of add-ons maintained by the community.

## Installation

-----

### PyPy

^^^^

[`PyPy <http://pypy.org/>`](http://pypy.org/) is the fastest way to run your Falcon app. However, note that only the PyPy 2.7 compatible release is currently supported.

.. code:: bash

```
$ pip install falcon
```

### CPython

^^^^^^

Falcon also fully supports

`CPython <<https://www.python.org/downloads/>>` \_\_ 2.6-3.5.

A universal wheel is available on PyPI for the the Falcon framework. Installing it is as simple as:

```
.. code:: bash
```

```
$ pip install falcon
```

Installing the wheel is a great way to get up and running with Falcon quickly in a development environment, but for an extra speed boost when deploying your application in production, Falcon can compile itself with Cython.

The following commands tell pip to install Cython, and then to invoke Falcon's ``setup.py``, which will in turn detect the presence of Cython and then compile (AKA cythonize) the Falcon framework with the system's default C compiler.

```
.. code:: bash
```

```
$ pip install cython
$ pip install --no-binary :all: falcon
```

**\*\*Installing on OS X\*\***

Xcode Command Line Tools are required to compile Cython. Install them with this command:

```
.. code:: bash
```

```
$ xcode-select --install
```

The Clang compiler treats unrecognized command-line options as errors; this can cause problems under Python 2.6, for example:

```
.. code:: bash
```

```
clang: error: unknown argument: '-mno-fused-madd' [-Wunused-command-line-argument-hard-error-in-future]
```

You might also see warnings about unused functions. You can work around these issues by setting additional Clang C compiler flags as follows:

```
.. code:: bash
```

```
$ export CFLAGS="-Qunused-arguments -Wno-unused-function"
```

## Dependencies

^^^^^^^^^^^^

Falcon depends on `six` and `python-mimeparse`. `python-mimeparse` is a better-maintained fork of the similarly named `mimeparse` project.

Normally the correct package will be selected by Falcon's ``setup.py``.

However, if you are using an alternate strategy to manage dependencies, please take care to install the correct package in order to avoid errors.

## WSGI Server

-----

Falcon speaks WSGI, and so in order to serve a Falcon app, you will need a WSGI server. Gunicorn and uWSGI are some of the more popular ones out there, but anything that can load a WSGI app will do.

.. code:: bash

```
$ pip install [gunicorn|uwsgi]
```

## Source Code

-----

Falcon `lives on GitHub <<https://github.com/falconry/falcon>>`, making the code easy to browse, download, fork, etc. Pull requests are always welcome! Also, please remember to star the project if it makes you happy. :)

Once you have cloned the repo or downloaded a tarball from GitHub, you can install Falcon like this:

.. code:: bash

```
$ cd falcon
$ pip install .
```

Or, if you want to edit the code, first fork the main repo, clone the fork to your desktop, and then run the following to install it using symbolic linking, so that when you change your code, the changes will be automatically available to your app without having to reinstall the package:

.. code:: bash

```
$ cd falcon
$ pip install -e .
```

You can manually test changes to the Falcon framework by switching to the directory of the cloned repo and then running pytest:

```
.. code:: bash
```

```
$ cd falcon
$ pip install -r tools/test-requirements
$ pytest tests
```

Or, to run the default set of tests:

```
.. code:: bash
```

```
$ pip install tox && tox
```

See also the `tox.ini` <<https://github.com/falconry/falcon/blob/master/tox.ini>> file for a full list of available environments.

Read the docs

-----

The docstrings in the Falcon code base are quite extensive, and we recommend keeping a REPL running while learning the framework so that you can query the various modules and classes as you have questions.

Online docs are available at: <https://falcon.readthedocs.io>

You can build the same docs locally as follows:

```
.. code:: bash
```

```
$ pip install tox && tox -e docs
```

Once the docs have been built, you can view them by opening the following index page in your browser. On OS X it's as simple as::

```
$ open docs/_build/html/index.html
```

Or on Linux:

```
$ xdg-open docs/_build/html/index.html
```

Getting started

-----

Here is a simple, contrived example showing how to create a Falcon-based API.

```
.. code:: python
```

```

things.py

Let's get this party started!
import falcon

Falcon follows the REST architectural style, meaning (among
other things) that you think in terms of resources and state
transitions, which map to HTTP verbs.
class ThingsResource(object):
 def on_get(self, req, resp):
 """Handles GET requests"""
 resp.status = falcon.HTTP_200 # This is the default status
 resp.body = ('\nTwo things awe me most, the starry sky '
 'above me and the moral law within me.\n'
 '\n'
 ' ~ Immanuel Kant\n\n')

falcon.API instances are callable WSGI apps
app = falcon.API()

Resources are represented by long-lived class instances
things = ThingsResource()

things will handle all requests to the '/things' URL path
app.add_route('/things', things)

```

You can run the above example using any WSGI server, such as uWSGI or Gunicorn. For example:

```

.. code:: bash

$ pip install gunicorn
$ gunicorn things:app

```

Then, in another terminal:

```

.. code:: bash

$ curl localhost:8000/things

```

A more complex example

-----

Here is a more involved example that demonstrates reading headers and query parameters, handling errors, and working with request and response bodies.

```
.. code:: python
```

```
import json
import logging
import uuid
from wsgiref import simple_server

import falcon
import requests

class StorageEngine(object):

 def get_things(self, marker, limit):
 return [{'id': str(uuid.uuid4()), 'color': 'green'}]

 def add_thing(self, thing):
 thing['id'] = str(uuid.uuid4())
 return thing

class StorageError(Exception):

 @staticmethod
 def handle(ex, req, resp, params):
 description = ('Sorry, couldn\'t write your thing to the '
 'database. It worked on my box.')

 raise falcon.HTTPError(falcon.HTTP_725,
 'Database Error',
 description)

class SinkAdapter(object):

 engines = {
 'ddg': 'https://duckduckgo.com',
 'y': 'https://search.yahoo.com/search',
 }

 def __call__(self, req, resp, engine):
 url = self.engines[engine]
 params = {'q': req.get_param('q', True)}
 result = requests.get(url, params=params)

 resp.status = str(result.status_code) + ' ' + result.reason
 resp.content_type = result.headers['content-type']
 resp.body = result.text
```

```

class AuthMiddleware(object):

 def process_request(self, req, resp):
 token = req.get_header('Authorization')
 account_id = req.get_header('Account-ID')

 challenges = ["Token type=\"Fernet\""]

 if token is None:
 description = ('Please provide an auth token '
 'as part of the request.')

 raise falcon.HTTPUnauthorized('Auth token required',
 description,
 challenges,
 href='http://docs.example.com/auth')

 if not self._token_is_valid(token, account_id):
 description = ('The provided auth token is not valid. '
 'Please request a new token and try again.')

 raise falcon.HTTPUnauthorized('Authentication required',
 description,
 challenges,
 href='http://docs.example.com/auth')

 def _token_is_valid(self, token, account_id):
 return True # Suuuuuure it's valid...

```

```

class RequireJSON(object):

 def process_request(self, req, resp):
 if not req.client_accepts_json:
 raise falcon.HTTPNotAcceptable(
 'This API only supports responses encoded as JSON.',
 href='http://docs.examples.com/api/json')

 if req.method in ('POST', 'PUT'):
 if 'application/json' not in req.content_type:
 raise falcon.HTTPUnsupportedMediaType(
 'This API only supports requests encoded as JSON.',
 href='http://docs.examples.com/api/json')

```

```

class JSONTranslator(object):

```

```

def process_request(self, req, resp):
 # req.stream corresponds to the WSGI wsgi.input environ variable,
 # and allows you to read bytes from the request body.
 #
 # See also: PEP 3333
 if req.content_length in (None, 0):
 # Nothing to do
 return

 body = req.stream.read()
 if not body:
 raise falcon.HTTPBadRequest('Empty request body',
 'A valid JSON document is required.')

 try:
 req.context['doc'] = json.loads(body.decode('utf-8'))

 except (ValueError, UnicodeDecodeError):
 raise falcon.HTTPError(falcon.HTTP_753,
 'Malformed JSON',
 'Could not decode the request body. The '
 'JSON was incorrect or not encoded as '
 'UTF-8.')

def process_response(self, req, resp, resource):
 if 'result' not in req.context:
 return

 resp.body = json.dumps(req.context['result'])

def max_body(limit):

def hook(req, resp, resource, params):
 length = req.content_length
 if length is not None and length > limit:
 msg = ('The size of the request is too large. The body must not '
 'exceed ' + str(limit) + ' bytes in length.')

 raise falcon.HTTPRequestEntityTooLarge(
 'Request body is too large', msg)

 return hook

class ThingsResource(object):

```



```

def __init__(self, db):
 self.db = db
 self.logger = logging.getLogger('thingsapp.' + __name__)

def on_get(self, req, resp, user_id):
 marker = req.get_param('marker') or ""
 limit = req.get_param_as_int('limit') or 50

 try:
 result = self.db.get_things(marker, limit)
 except Exception as ex:
 self.logger.error(ex)

 description = ('Aliens have attacked our base! We will '
 'be back as soon as we fight them off. '
 'We appreciate your patience.')

 raise falcon.HTTPServiceUnavailable(
 'Service Outage',
 description,
 30)

 # An alternative way of doing DRY serialization would be to
 # create a custom class that inherits from falcon.Request. This
 # class could, for example, have an additional 'doc' property
 # that would serialize to JSON under the covers.
 req.context['result'] = result

 resp.set_header('Powered-By', 'Falcon')
 resp.status = falcon.HTTP_200

@falcon.before(max_body(64 * 1024))
def on_post(self, req, resp, user_id):
 try:
 doc = req.context['doc']
 except KeyError:
 raise falcon.HTTPBadRequest(
 'Missing thing',
 'A thing must be submitted in the request body.')

 proper_thing = self.db.add_thing(doc)

 resp.status = falcon.HTTP_201
 resp.location = '/%s/things/%s' % (user_id, proper_thing['id'])

Configure your WSGI server to load "things.app" (app is a WSGI callable)
app = falcon.API(middleware=[

```

```

 AuthMiddleware(),
 RequireJSON(),
 JSONTranslator(),
)

db = StorageEngine()
things = ThingsResource(db)
app.add_route('/{user_id}/things', things)

If a responder ever raised an instance of StorageError, pass control to
the given handler.
app.add_error_handler(StorageError, StorageError.handle)

Proxy some things to another service; this example shows how you might
send parts of an API off to a legacy system that hasn't been upgraded
yet, or perhaps is a single cluster that all data centers have to share.
sink = SinkAdapter()
app.add_sink(sink, r'/search/(?P<engine>ddg|y)\Z')

Useful for debugging problems in your API; works with pdb.set_trace(). You
can also use Gunicorn to host your app. Gunicorn can be configured to
auto-restart workers when it detects a code change, and it also works
with pdb.
if __name__ == '__main__':
 httpd = simple_server.make_server('127.0.0.1', 8000, app)
 httpd.serve_forever()

```

## Community

-----

The Falcon community maintains a discussion group that you can use to share your ideas and ask questions about the framework. To join the discussion, please visit <https://groups.google.com/d/forum/falconframework>.

Per our

`Code of Conduct <<https://github.com/falconry/falcon/blob/master/CODEOFCONDUCT.md>>`, we expect everyone who participates in community discussions to act professionally, and lead by example in encouraging constructive discussions. Each individual in the community is responsible for creating a positive, constructive, and productive culture.

We also hang out in

`#falconframework <<https://kiwiirc.com/client/irc.freenode.net/?#falconframework>>` on freenode, where everyone is always welcome to ask questions and share ideas.

Contributing

-----  
Kurt Griffiths (kgriffs) is the creator and current maintainer of the Falcon framework, with the generous help of a number of stylish and talented contributors.

Pull requests are always welcome. We use the GitHub issue tracker to organize our work, but you do not need to open a new issue before submitting a PR.

Before submitting a pull request, please ensure you have added/updated the appropriate tests (and that all existing tests still pass with your changes), and that your coding style follows PEP 8 and doesn't cause pyflakes to complain.

Commit messages should be formatted using `AngularJS conventions` <http://goo.gl/QpbS7>.

Comments follow `Google's style guide` <https://google.github.io/styleguide/pyguide.html?showone=Comments#Comments>, with the additional requirement of prefixing inline comments using your GitHub nick and an appropriate prefix:

- TODO(riker): Damage report!
- NOTE(riker): Well, that's certainly good to know.
- PERF(riker): Travel time to the nearest starbase?
- APPSEC(riker): In all trust, there is the possibility for betrayal.

See also: `CONTRIBUTING.md` <https://github.com/falconry/falcon/blob/master/CONTRIBUTING.md>

Legal

-----

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```
.. |Docs| image:: https://readthedocs.org/projects/falcon/badge/?version=stable
 :target: https://falcon.readthedocs.io/en/stable/?badge=stable
 :alt: Falcon web framework docs
.. |Runner| image:: https://a248.e.akamai.net/assets.github.com/images/icons/emoji/runner.png
 :width: 20
 :height: 20
.. |Build Status| image:: https://travis-ci.org/falconry/falcon.svg
 :target: https://travis-ci.org/falconry/falcon
.. |codecov.io| image:: http://codecov.io/github/falconry/falcon/coverage.svg?branch=master
 :target: http://codecov.io/github/falconry/falcon?branch=master
```

Keywords: wsgi web api framework rest http cloud

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Natural Language :: English

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: POSIX

Classifier: Topic :: Internet :: WWW/HTTP :: WSGI

Classifier: Topic :: Software Development :: Libraries :: Application Frameworks

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Programming Language :: Python :: Implementation :: Jython

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Found in path(s):

```
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/PKG-INFO
```

```
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon.egg-info/PKG-INFO
```

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Found in path(s):

\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/resource.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/bench.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http\_error.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/responders.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/api.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/stats.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/misc.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/client.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request\_helpers.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response\_helpers.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/redirects.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/\_\_init\_\_.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/cmd/print\_routes.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/request.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/errors.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/claims.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/hooks.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/\_\_init\_\_.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/messages.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/util/uri.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/response.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/base.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/tools/build.sh  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/status\_codes.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/queues/queues.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/version.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/bench.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api\_helpers.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/\_\_init\_\_.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/http\_status.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/compiled.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/api.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/routing/util.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/srmock.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/test\_case.py  
\* /opt/cola/permits/1156180158\_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/bench/create.py

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Found in path(s):

```
* /opt/cola/permits/1156180158_1619139170.53/0/falcon-1-1-0-tar-gz/falcon-1.1.0/falcon/testing/helpers.py
```

## 1.111 safeclib 4.0.45

### 1.111.1 Available under license :

Cisco Safe C Library

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## 1.112 libyaml 0.2.1

## 1.112.1 Available under license :

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_filter_unittest.py
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```
/*
*
* IP-address/hostname to country converter.
*
* Problem; you want to know where IP a.b.c.d is located.
*
* Use ares_gethostbyname ("d.c.b.a.zz.countries.nerd.dk")
* and get the CNAME (host->h_name). Result will be:
* CNAME = zz<CC>.countries.nerd.dk with address 127.0.x.y (ver 1) or
* CNAME = <a.b.c.d>.zz.countries.nerd.dk with address 127.0.x.y (ver 2)
*
* The 2 letter country code is in <CC> and the ISO-3166 country
* number is in x.y (number = x*256 + y). Version 2 of the protocol is missing
* the <CC> number.
*
* Ref: http://countries.nerd.dk/more.html
*
* Written by G. Vanem <gvanem@yahoo.no> 2006, 2007
*
* NB! This program may not be big-endian aware.
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1.14.1/third_party/boringssl/ssl/s3_pkt.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/internal/gtest-type-util.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/third_party/googletest/test/gtest-test-part_test.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/third_party/googletest/include/gtest/internal/gtest-tuple.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/samples/prime_tables.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/third_party/googletest/samples/sample7_unittest.cc
```

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/prime\_tables.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gtest-typed-test.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/internal/gtest-param-util-generated.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/sample8\_unittest.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/internal/gtest-param-util.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/sample6\_unittest.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest-typed-test\_test.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/include/gtest/gtest-typed-test.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest-typed-test\_test.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/internal/gtest-tuple.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample6\_unittest.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample8\_unittest.cc  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpicio-1-14-1-1-tar-gz/grpicio-  
 1.14.1/third\_party/boringssl/include/openssl/cpu.h

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/third_party/googletest/test/gtest_shuffle_test.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_shuffle_test.py
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*/
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```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/address_sorting/address_sorting_windows.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/address_sorting/address_sorting.c
```

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/address_sorting/include/address_sorting/address_sorting.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/address_sorting/address_sorting_posix.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/address_sorting/address_sorting_internal.h
```

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```

```
// AEAD couples confidentiality and integrity in a single primitive. AEAD
```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/include/openssl/ead.h
```

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```

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*
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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/evp/scrypt.c
```

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```
/* unzip.c -- IO for uncompress .zip files using zlib
```

```
Version 1.1, February 14h, 2010
```

```
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)
```

Copyright (C) 1998-2010 Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64  
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

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See the accompanying file LICENSE, version 2000-Apr-09 or later (the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G

should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is  
required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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\*/

Found in path(s):

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/zlib/contrib/minizip/unzip.c

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1.14.1/src/core/lib/security/credentials/composite/composite\_credentials.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/census.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/iomgr/ev\_poll\_posix.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/surface/completion\_queue.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/surface/completion\_queue.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/json/json\_reader.cc

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client_channel/resolver/sockaddr/sockaddr_resolver.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/grpc.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/server.cc
```

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/fipsmodule/is_fips.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/cipher_extra/e_aesgcm_siv.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/ssl/test/fuzzer.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/fuzz/dtls_server.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/fipstools/cavp_hmac_test.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/fipstools/cavp_tdes_test.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/evp/p_ed25519.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/evp/p_ed25519_asn1.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/test/gtest_main.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/fuzz/bn_div.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/tool/sign.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/fipsmodule/delocate.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/ssl/test/fuzzer_tags.h
```



- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_ecdsa2\_keypair\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_ecdsa2\_sigver\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_aes\_gcm\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_ecdsa2\_siggen\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/file.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/span\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pkcs7/internal.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_rsa2\_sigver\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_rsa2\_keygen\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pkcs7/pkcs7\_x509.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_sha\_monte\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/rand\_extra/rand\_extra.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/rand\_extra/fuchsia.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/evp/scrypt\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/rand/ctrdrbg.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fuzz/dtls\_client.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/rand\_extra/forkunsafe.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_keywrap\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_main.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_ctr\_drbg\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/test\_fips.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_ecdsa2\_pkv\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/test/file\_test\_gtest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/e\_aesctrhmac.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/self\_check/self\_check.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/ssl\_versions.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/buf/buf\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_aes\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/rand/ctrdrbg\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_test\_util.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_sha\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_rsa2\_siggen\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/boringssl/crypto\_test\_data.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/compiler\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fuzz/bn\_mod\_exp.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fipstools/cavp\_test\_util.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/bcm.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/span.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/aes/internal.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/err/internal.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/is\_boringssl.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
 1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/jacobi.c

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1.14.1/third\_party/cares/cares/ares\_options.c

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\* Original file name getopt.c Initial import into the c-ares source tree  
\* on 2007-04-11. Lifted from version 5.2 of the 'Open Mash' project with  
\* the modified BSD license, BSD license without the advertising clause.

\*  
\*/

/\*

\* getopt.c --

\*

\* Standard UNIX getopt function. Code is from BSD.

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/\* infcover.c -- test zlib's inflate routines with full code coverage  
\* Copyright (C) 2011, 2016 Mark Adler  
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\*/

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/zlib/test/infcover.c

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/cfb/cfb.c

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/\* inflate.h -- internal inflate state definition  
\* Copyright (C) 1995-2016 Mark Adler  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/metadata.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/connector.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/frame\_data.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/tmpfile.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/debug/trace.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/sync.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/context.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/transport\_op\_string.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/init\_secure.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/context/security\_context.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/log.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/client\_channel\_plugin.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/time\_precise.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/endpoint\_pair\_windows.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy\_registry.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/iomgr\_windows.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/sockaddr\_utils.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/time\_precise.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/src/core/lib/slice/slice\_string\_helpers.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/status\_conversion.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/transport/frame\_window\_update.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/atm.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/udp\_server.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/load\_file.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/transport/frame\_ping.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/port\_platform.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/client/http2\_connector.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/string.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/murmur\_hash.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/atm\_windows.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/slice/b64.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/time\_averaged\_stats.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/json/json\_writer.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/transport/tsi\_error.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/json/json\_reader.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver\_registry.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/compression/algorithm\_metadata.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/server/secure/server\_secure\_http2.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/security\_connector/security\_connector.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/security\_connector/security\_connector.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/iomgr\_posix.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/call.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/transport/http2\_transport.cc

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/fake\_transport\_security.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/subchannel.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/huffsyms.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/frame\_goaway.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/byte\_buffer.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy\_factory.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/jwt/json\_token.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/atm.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/byte\_buffer\_reader.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/client\_channel\_factory.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/uri\_parser.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/cpu\_posix.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/metadata\_batch.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/log.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/sync\_generic.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/connected\_channel.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/client\_channel.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/tmpfile\_windows.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy/round\_robin/round\_robin.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/transport/secure\_endpoint.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/alloc.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_server\_windows.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/client\_channel.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-



1.14.1/src/core/lib/iomgr/udp\_server.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/http/message\_compress/message\_compress\_filter.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/sync\_windows.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/grpc\_security.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/sockaddr.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/connectivity\_state.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_utils\_common\_posix.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/ssl\_types.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/client/insecure/channel\_create.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/channel.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/closure.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_windows.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/http/message\_compress/message\_compress\_filter.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/metadata\_array.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/cpu\_iphone.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/hpack\_parser.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/subchannel.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/hpack\_table.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/credentials\_metadata.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/atm\_gcc\_atomic.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/transport/client\_auth\_filter.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/tls\_pthread.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/sync\_windows.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/tls\_msvc.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/frame.h

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/time.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/alloc.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_windows.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/sync\_posix.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/http/server/http\_server\_filter.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/client\_channel\_factory.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/ssl\_transport\_security.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/transport/server\_auth\_filter.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver\_registry.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/http/parser.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_mutator.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/atm\_gcc\_sync.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_windows.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/timeout\_encoding.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/debug/trace.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/compression/compression.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/http/format\_request.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/iomgr\_internal.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/slice/b64.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/frame\_rst\_stream.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_set.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/cpu.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/byte\_buffer.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/slice/slice\_string\_helpers.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/transport/security\_handshaker.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/timer\_generic.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/host\_port.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/src/core/ext/transport/chtcp2/transport/frame\_ping.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/polling\_entity.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/time\_averaged\_stats.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/timer\_heap.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chtcp2/client/secure/secure\_channel\_create.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/log\_posix.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/atm\_windows.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/call.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/metadata.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_windows.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/endpoint.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/load\_file.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_set\_windows.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/ev\_windows.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chtcp2/transport/hpack\_encoder.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/time.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_server\_posix.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/byte\_stream.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_windows.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chtcp2/transport/frame\_settings.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/log\_android.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/exec\_ctx.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/workaround\_list.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/json/json\_common.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/timer\_heap.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/src/core/ext/filters/client\_channel/lb\_policy.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/ev\_posix.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_windows.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/channel\_stack.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/fake\_transport\_security.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/ssl\_transport\_security.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/status.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/transport/hpack\_encoder.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/transport/parsing.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/version.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/init.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/murmur\_hash.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/transport/incoming\_metadata.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/alpn/alpn.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/endpoint.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_set\_windows.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/compression/compression\_internal.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/transport/tsi\_error.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/google\_default/google\_default\_credentials.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/transport/bin\_encoder.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_client\_posix.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/sync\_posix.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/alpn/alpn.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/channel\_ping.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/iocp\_windows.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/include/grpc/support/sync\_generic.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/tls\_pthread.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/ev\_epollsig\_linux.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/env\_windows.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/http/parser.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/cpu\_windows.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/json/json\_string.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/http/httpcli.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/parse\_address.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_utils\_posix.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/init.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/context/security\_context.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/host\_port.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/http2\_errors.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/uri\_parser.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_posix.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/resolve\_address\_posix.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/slice\_buffer.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/sync\_posix.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/writing.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/wakeup\_fd\_eventfd.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/json/json.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/time\_windows.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_utils\_posix.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/cpp/ext/filters/census/grpc\_context.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/profiling/stap\_timers.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/stream\_map.cc

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/channel\_stack\_type.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/chttp2\_transport.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/byte\_buffer.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/resolve\_address\_windows.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/time\_posix.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver\_factory.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/json/json.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/string.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/byte\_stream.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/client/chttp2\_connector.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/api\_trace.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/transport.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/sockaddr\_windows.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/executor.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/slice.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_posix.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/atm\_gcc\_sync.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/chttp2\_plugin.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/hpack\_parser.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/frame\_window\_update.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/util/json\_util.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/wakeup\_fd\_pipe.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/call\_details.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/call\_log\_batch.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/http/server/http\_server\_filter.h

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/wakeup\_fd\_pipe.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy/pick\_first/pick\_first.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/channel\_args.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/server/insecure/server\_chttp2.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/env\_linux.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/byte\_buffer\_reader.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/transport/security\_handshaker.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/port\_platform.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/log\_linux.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/block\_annotate.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/channel\_args.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver/dns/native/dns\_resolver.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/cpu\_linux.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/log.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_client.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/profiling/timers.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/server.h
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/gpr/sync\_windows.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/gpr/tmpfile\_posix.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/ext/filters/client\_channel/lb\_policy/subchannel\_list.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/tsi/transport\_security\_interface.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/gpr/tmpfile\_msys.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/iomgr/endpoint\_pair.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/gpr/string\_windows.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/profiling/basic\_timers.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/transport/transport.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/avl/avl.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/tls.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/http/format\_request.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/transport/metadata\_batch.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/iomgr/socket\_mutator.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/src/core/lib/iomgr/tcp\_client\_posix.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/bin\_encoder.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/ev\_epollex\_linux.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/connector.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/oauth2/oauth2\_credentials.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/timer.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/spinlock.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/status\_conversion.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/http/httpcli\_security\_connector.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/connected\_channel.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/timeout\_encoding.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/compression/message\_compress.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/transport/auth\_filters.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/env.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/transport\_impl.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/composite/composite\_credentials.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/exec\_ctx.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/json/json\_writer.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/resolve\_address.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/executor.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/sockaddr\_posix.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_client\_windows.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/incoming\_metadata.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/transport\_security.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/is\_epollexclusive\_available.h

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/avl/avl.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chtcp2/transport/hpack_table.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chtcp2/transport/frame_data.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/init_unsecure.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/string_util.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket_utils_linux.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chtcp2/transport/frame_rst_stream.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/compression.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/byte_buffer_reader.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/event_string.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/atm_gcc_atomic.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client_channel/lb_policy_registry.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/api_trace.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/sync.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/http/httpcli.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gprpp/thd_windows.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/ev_posix.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/wakeup_fd_nospecial.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/channel_stack.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/env_posix.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chtcp2/transport/stream_map.h
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/rsa/padding.c

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```
*/opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_wrapper_fallback.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509v3/v3name\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509v3/v3\_int.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509v3/ext\_dat.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509v3/v3\_purp.c

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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/channelz.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/zero\_copy\_frame\_protector/alts\_iovec\_record\_protocol.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_custom.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/ssl/session\_cache/ssl\_session.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/endpoint\_cfstream.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/handshaker/alts\_handshaker\_client.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/crypt/aes\_gcm.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_set.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/alts\_frame\_protector.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_server.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/handshaker/alts\_tsi\_handshaker.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/endpoint\_cfstream.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/crypt/gsec.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/handshaker/alts\_tsi\_utils.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/frame\_handler.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_server\_custom.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/security\_connector/local\_security\_connector.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/alts\_frame\_protector.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/src/core/lib/iomgr/resolve\_address.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_client\_custom.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/load\_reporting/registered\_opencensus\_objects.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/alts/alts\_credentials.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/zero\_copy\_frame\_protector/alts\_grpc\_privacy\_integrity\_record\_protocol.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/alts/grpc\_alts\_credentials\_client\_options.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/local/local\_credentials.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/ssl/session\_cache/ssl\_session\_boringssl.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/ssl/session\_cache/ssl\_session\_cache.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/client/authority.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_client\_cfstream.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/zero\_copy\_frame\_protector/alts\_grpc\_integrity\_only\_record\_protocol.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/handshaker/alts\_handshaker\_service\_api.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_custom.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/iomgr\_uv.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/alts\_unseal\_privacy\_integrity\_crypter.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/alts/check\_gcp\_environment\_linux.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/handshaker/alts\_tsi\_utils.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/timer\_custom.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/frame\_handler.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/http/client\_authority\_filter.h  
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 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset.cc  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/ssl/session\_cache/ssl\_session\_openssl.cc

1.14.1/src/core/tsi/ssl/session\_cache/ssl\_session\_openssl.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/zero\_copy\_frame\_protector/alts\_iovec\_record\_protocol.h

1.14.1/src/core/tsi/alts/zero\_copy\_frame\_protector/alts\_iovec\_record\_protocol.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/alts\_counter.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/alts\_crypter.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/ssl/session\_cache/ssl\_session\_cache.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/handshaker/alts\_handshaker\_service\_api.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/handshaker/alts\_handshaker\_service\_api\_util.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/security\_connector/alts\_security\_connector.cc

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/http/client\_authority\_filter.cc

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/alts/check\_gcp\_environment.cc

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/resolve\_address\_custom.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/support/thd\_id.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/iomgr\_internal.cc

1.14.1/src/core/lib/iomgr/iomgr\_internal.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/timer.cc

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/local/local\_credentials.cc

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/security\_connector/local\_security\_connector.cc

1.14.1/src/core/lib/security/security\_connector/local\_security\_connector.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/alts/grpc\_alts\_credentials\_options.h

1.14.1/src/core/lib/security/credentials/alts/grpc\_alts\_credentials\_options.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/zero\_copy\_frame\_protector/alts\_zero\_copy\_grpc\_protector.cc

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/local\_transport\_security.cc

1.14.1/src/core/tsi/local\_transport\_security.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/zero\_copy\_frame\_protector/alts\_grpc\_record\_protocol.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/alts\_record\_protocol\_crypter\_common.cc

1.14.1/src/core/tsi/alts/frame\_protector/alts\_record\_protocol\_crypter\_common.cc

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/zero\_copy\_frame\_protector/alts\_zero\_copy\_grpc\_protector.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/alts\_record\_protocol\_crypter\_common.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/alts/check\_gcp\_environment\_no\_op.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/alts\_counter.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_set\_custom.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/handshaker/alts\_tsi\_handshaker.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/resolve\_address\_custom.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/zero\_copy\_frame\_protector/alts\_grpc\_privacy\_integrity\_record\_protocol.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/alts/alts\_credentials.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/frame\_protector/alts\_seal\_privacy\_integrity\_crypter.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/alts/grpc\_alts\_credentials\_server\_options.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/alts/check\_gcp\_environment\_windows.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/client/authority.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/error\_cfstream.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/cfstream\_handle.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/tsi/alts/handshaker/alts\_tsi\_event.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/client\_channel\_channelz.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_custom.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

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1.14.1/src/core/tsi/alts/frame_protector/alts_crypter.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/core/tsi/alts/handshaker/alts_tsi_event.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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1.14.1/src/core/tsi/alts/handshaker/alts_handshaker_service_api_util.cc
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/nanopb/extra/pb_syshdr.h
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1.14.1/third\_party/boringssl/crypto/fipsmodule/rsa/blinding.c

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```
/* infback.c -- inflate using a call-back interface
```

```
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```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
*/opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/zlib/infback.c
```

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```
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Found in path(s):

```
*/opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
```

```
1.14.1/third_party/boringssl/util/bot/update_clang.py
```

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*
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/dsa/dsa\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/dsa.h

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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/d1\_pkt.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/d1\_both.cc

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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/evp/p\_dsa\_asn1.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/evp/p\_ec.c
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 1.14.1/third\_party/boringssl/ssl/ssl\_x509.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
 1.14.1/third\_party/boringssl/ssl/ssl\_lib.cc

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/\* inffas86.c is a hand tuned assembler version of  
 \*  
 \* inffast.c -- fast decoding  
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```

* Copyright (C) 2003 Chris Anderson <christop@charm.net>
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*
* Dec-29-2003 -- I added AMD64 inflate asm support. This version is also
* slightly quicker on x86 systems because, instead of using rep movsb to copy
* data, it uses rep movsw, which moves data in 2-byte chunks instead of single
* bytes. I've tested the AMD64 code on a Fedora Core 1 + the x86_64 updates
* from http://fedora.linux.duke.edu/fc1_x86_64
* which is running on an Athlon 64 3000+ / Gigabyte GA-K8VT800M system with
* 1GB ram. The 64-bit version is about 4% faster than the 32-bit version,
* when decompressing mozilla-source-1.3.tar.gz.
*
* Mar-13-2003 -- Most of this is derived from inffast.S which is derived from
* the gcc -S output of zlib-1.2.0/inffast.c. Zlib-1.2.0 is in beta release at
* the moment. I have successfully compiled and tested this code with gcc2.96,
* gcc3.2, icc5.0, msvc6.0. It is very close to the speed of inffast.S
* compiled with gcc -DNO_MMX, but inffast.S is still faster on the P3 with MMX
* enabled. I will attempt to merge the MMX code into this version. Newer
* versions of this and inffast.S can be found at
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1.14.1/third\_party/boringssl/crypto/rsa\_extra/rsa\_asn1.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/dh/dh\_asn1.c

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/ssl/d1_lib.cc

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1.14.1/third\_party/boringssl/decrepit/x509/x509\_decrepit.c

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1.14.1/third\_party/boringssl/ssl/tls13\_both.cc  
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 1.14.1/third\_party/boringssl/crypto/obj/obj\_test.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/obj/obj\_test.cc  
 1.14.1/third\_party/boringssl/crypto/curve25519/spake25519\_test.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/curve25519/spake25519\_test.cc  
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 1.14.1/third\_party/boringssl/fuzz/ssl\_ctx\_api.cc  
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 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/tls13\_server.cc  
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 1.14.1/third\_party/boringssl/crypto/pool/internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pool/internal.h  
 1.14.1/third\_party/boringssl/fuzz/read\_pem.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/fuzz/read\_pem.cc  
 1.14.1/third\_party/boringssl/decrepit/evp/evp\_do\_all.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/evp/evp\_do\_all.c  
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 1.14.1/third\_party/boringssl/crypto/cpu-aarch64-linux.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cpu-aarch64-linux.c  
 1.14.1/third\_party/boringssl/ssl/tls13\_enc.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/tls13\_enc.cc  
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 1.14.1/third\_party/boringssl/crypto/chacha/chacha\_test.cc  
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 1.14.1/third\_party/boringssl/crypto/bytestring/asn1\_compat.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bytestring/asn1\_compat.c

1.14.1/third\_party/boringssl/fuzz/client.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/ec/p256-x86\_64\_test.cc  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/test/gtest\_main.cc  
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1.14.1/third\_party/boringssl/third\_party/ fiat/make\_curve25519\_tables.py

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```

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* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

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```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/zlib/trees.c
```

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```
/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
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*/
```

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```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/zlib/gzclose.c
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```

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/fused-src/gtest/gtest-all.cc
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1.14.1/third_party/cares/cares/test/gmock-1.7.0/fused-src/gtest/gtest.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/test/gmock-1.7.0/fused-src/gmock-gtest-all.cc
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```
/* zutil.h -- internal interface and configuration of the compression library
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*/
```

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```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/zlib/zutil.h
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*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com). */

```

Found in path(s):

```

* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/pkcs8/internal.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509/x509spki.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509v3/v3_akeya.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/pkcs8/p5_pbev2.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509/x_x509a.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/pkcs8/pkcs8_x509.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509v3/v3_prn.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509/x509_trs.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/include/openssl/pkcs8.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/pkcs8/pkcs8.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509v3/v3_akey.c

```

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/x509v3/v3_pku.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/x509v3/v3_bcons.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/x509v3/v3_bitst.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/x509v3/v3_skey.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/x509v3/v3_enum.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/x509v3/v3_extku.c
```

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```
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```
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```
// Adapted from the public domain, estream code by D. Bernstein.
```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/chacha/chacha.c
```

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```
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```

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```
*
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* Hudson (tjh@cryptsoft.com). */

```

Found in path(s):

```

* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509v3/v3_conf.c

```

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Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest-unittest-api_test.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/third_party/googletest/test/gtest-unittest-api_test.cc
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```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/core/ext/transport/chttp2/transport/http2_settings.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/core/ext/transport/chttp2/transport/http2_settings.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/core/lib/debug/stats_data.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/core/lib/debug/stats_data.h
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```

```
Issuer: CN=GlobalSign Root CA O=GlobalSign nv-sa OU=Root CA
Subject: CN=GlobalSign Root CA O=GlobalSign nv-sa OU=Root CA
Label: "GlobalSign Root CA"
Serial: 4835703278459707669005204
```



# MD5 Fingerprint: 3e:45:52:15:09:51:92:e1:b7:5d:37:9f:b1:87:29:8a  
# SHA1 Fingerprint: b1:bc:96:8b:d4:f4:9d:62:2a:a8:9a:81:f2:15:01:52:a4:1d:82:9c  
# SHA256 Fingerprint:  
eb:d4:10:40:e4:bb:3e:c7:42:c9:e3:81:d3:1e:f2:a4:1a:48:b6:68:5c:96:e7:ce:f3:c1:df:6c:d4:33:1c:99  
-----BEGIN CERTIFICATE-----  
MIIDdTCCA2gAwIBAgILBAAAAAABFUaw5QwDQYJKoZIhvcNAQEFBQAwwVzELMAkG  
A1UEBhMCQkUxGTAXBgNVBAoTEEdsb2JhbFNpZ24gbnYtc2ExEDA0BgNVBAsTB1Jv  
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HMUfpIBvFSDJ3gyICh3WZlXi/EjJKSZp4A==  
-----END CERTIFICATE-----

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# Subject: CN=GlobalSign O=GlobalSign OU=GlobalSign Root CA - R2  
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# Serial: 4835703278459682885658125  
# MD5 Fingerprint: 94:14:77:7e:3e:5e:fd:8f:30:bd:41:b0:cf:e7:d0:30  
# SHA1 Fingerprint: 75:e0:ab:b6:13:85:12:27:1c:04:f8:5f:dd:de:38:e4:b7:24:2e:fe  
# SHA256 Fingerprint:  
ca:42:dd:41:74:5f:d0:b8:1e:b9:02:36:2c:f9:d8:bf:71:9d:a1:bd:1b:1e:fc:94:6f:5b:4c:99:f4:2c:1b:9e  
-----BEGIN CERTIFICATE-----

MIIDujCCAqKqAwIBAgILBAAAAAABD4Ym5g0wDQYJKoZIhvcNAQEFBQAwwTDEgMB4G  
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TBj0/VLZjmmx6BEP3ojY+x1J96relc8geMJgEtslQIxq/H5COEBkEveegeGTLg==  
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# Serial: 206684696279472310254277870180966723415  
# MD5 Fingerprint: cd:68:b6:a7:c7:c4:ce:75:e0:1d:4f:57:44:61:92:09  
# SHA1 Fingerprint: 13:2d:0d:45:53:4b:69:97:cd:b2:d5:c3:39:e2:55:76:60:9b:5c:c6  
# SHA256 Fingerprint:  
eb:04:cf:5e:b1:f3:9a:fa:76:2f:2b:b1:20:f2:96:cb:a5:20:c1:b9:7d:b1:58:95:65:b8:1c:b9:a1:7b:72:44

-----BEGIN CERTIFICATE-----

MIIEGjCCAaICEQCbfzJoz5iudXukEhxKe9XMA0GCSqGSIb3DQEBBQUAMIHKMQsw  
CQYDVQQGEwJVUzEXMBUGA1UEChMOVmVyaVNpZ24sIEluYy4xHzAdBgNVBAsTFiZl  
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TxzhT5yvDwyd93gN2PQ1VoDat20Xj50egWTh/sVFuq1ruQp6Tk9LhO5L8X3dEQ==  
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```
Label: "Entrust.net Premium 2048 Secure Server CA"
Serial: 946069240
MD5 Fingerprint: ee:29:31:bc:32:7e:9a:e6:e8:b5:f7:51:b4:34:71:90
SHA1 Fingerprint: 50:30:06:09:1d:97:d4:f5:ae:39:f7:cb:e7:92:7d:7d:65:2d:34:31
SHA256 Fingerprint:
6d:c4:71:72:e0:1c:bc:b0:bf:62:58:0d:89:5f:e2:b8:ac:9a:d4:f8:73:80:1e:0c:10:b9:c8:37:d2:1e:b1:77
-----BEGIN CERTIFICATE-----
MIIEKjCCAxKgAwIBAgIEOGPe+DANBgkqhkiG9w0BAQUFADCbtDEUMBIGAlUEChML
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-----END CERTIFICATE-----
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Issuer: CN=Baltimore CyberTrust Root O=Baltimore OU=CyberTrust
Subject: CN=Baltimore CyberTrust Root O=Baltimore OU=CyberTrust
Label: "Baltimore CyberTrust Root"
Serial: 33554617
MD5 Fingerprint: ac:b6:94:a5:9c:17:e0:d7:91:52:9b:b1:97:06:a6:e4
SHA1 Fingerprint: d4:de:20:d0:5e:66:fc:53:fe:1a:50:88:2c:78:db:28:52:ca:e4:74
SHA256 Fingerprint:
16:af:57:a9:f6:76:b0:ab:12:60:95:aa:5e:ba:de:f2:2a:b3:11:19:d6:44:ac:95:cd:4b:93:db:f3:f2:6a:eb
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-----END CERTIFICATE-----

# Issuer: CN=AddTrust External CA Root O=AddTrust AB OU=AddTrust External TTP Network  
# Subject: CN=AddTrust External CA Root O=AddTrust AB OU=AddTrust External TTP Network  
# Label: "AddTrust External Root"  
# Serial: 1  
# MD5 Fingerprint: 1d:35:54:04:85:78:b0:3f:42:42:4d:bf:20:73:0a:3f  
# SHA1 Fingerprint: 02:fa:f3:e2:91:43:54:68:60:78:57:69:4d:f5:e4:5b:68:85:18:68  
# SHA256 Fingerprint:  
68:7f:a4:51:38:22:78:ff:f0:c8:b1:1f:8d:43:d5:76:67:1c:6e:b2:bc:ea:b4:13:fb:83:d9:65:d0:6d:2f:f2  
-----BEGIN CERTIFICATE-----

MIIENjCCAx6gAwIBAgIBATANBgkqhkiG9w0BAQUFADBvMQswCQYDVQQGEwJTRTEU  
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-----END CERTIFICATE-----

# Issuer: CN=Entrust Root Certification Authority O=Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference/(c) 2006 Entrust, Inc.

# Subject: CN=Entrust Root Certification Authority O=Entrust, Inc. OU=www.entrust.net/CPS is incorporated by reference/(c) 2006 Entrust, Inc.

# Label: "Entrust Root Certification Authority"

# Serial: 1164660820

# MD5 Fingerprint: d6:a5:c3:ed:5d:dd:3e:00:c1:3d:87:92:1f:1d:3f:e4

# SHA1 Fingerprint: b3:1e:b1:b7:40:e3:6c:84:02:da:dc:37:d4:4d:f5:d4:67:49:52:f9

# SHA256 Fingerprint:

73:c1:76:43:4f:1b:c6:d5:ad:f4:5b:0e:76:e7:27:28:7c:8d:e5:76:16:c1:e6:e6:14:1a:2b:2c:bc:7d:8e:4c

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=GeoTrust Global CA O=GeoTrust Inc.

# Subject: CN=GeoTrust Global CA O=GeoTrust Inc.

# Label: "GeoTrust Global CA"

# Serial: 144470

# MD5 Fingerprint: f7:75:ab:29:fb:51:4e:b7:77:5e:ff:05:3c:99:8e:f5

# SHA1 Fingerprint: de:28:f4:a4:ff:e5:b9:2f:a3:c5:03:d1:a3:49:a7:f9:96:2a:82:12

# SHA256 Fingerprint:

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-----END CERTIFICATE-----

# Issuer: CN=GeoTrust Universal CA 2 O=GeoTrust Inc.

# Subject: CN=GeoTrust Universal CA 2 O=GeoTrust Inc.

# Label: "GeoTrust Universal CA 2"

# Serial: 1

# MD5 Fingerprint: 34:fc:b8:d0:36:db:9e:14:b3:c2:f2:db:8f:e4:94:c7

# SHA1 Fingerprint: 37:9a:19:7b:41:85:45:35:0c:a6:03:69:f3:3c:2e:af:47:4f:20:79

# SHA256 Fingerprint:

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-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Visa eCommerce Root O=VISA OU=Visa International Service Association
# Subject: CN=Visa eCommerce Root O=VISA OU=Visa International Service Association
# Label: "Visa eCommerce Root"
# Serial: 25952180776285836048024890241505565794
# MD5 Fingerprint: fc:11:b8:d8:08:93:30:00:6d:23:f9:7e:eb:52:1e:02
# SHA1 Fingerprint: 70:17:9b:86:8c:00:a4:fa:60:91:52:22:3f:9f:3e:32:bd:e0:05:62
# SHA256 Fingerprint:
69:fa:c9:bd:55:fb:0a:c7:8d:53:bb:ee:5c:f1:d5:97:98:9f:d0:aa:ab:20:a2:51:51:bd:f1:73:3e:e7:d1:22

-----BEGIN CERTIFICATE-----

MIIDojCCAoqgAwIBAgIQE4Y1TR0/BvLB+WUF1ZAcYjANBgkqhkiG9w0BAQUFADBr
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398znM/jra6O1I7mT1GvFpLgXPYHDw==

-----END CERTIFICATE-----

# Issuer: CN=AAA Certificate Services O=Comodo CA Limited
# Subject: CN=AAA Certificate Services O=Comodo CA Limited
# Label: "Comodo AAA Services root"
# Serial: 1
# MD5 Fingerprint: 49:79:04:b0:eb:87:19:ac:47:b0:bc:11:51:9b:74:d0
# SHA1 Fingerprint: d1:eb:23:a4:6d:17:d6:8f:d9:25:64:c2:f1:f1:60:17:64:d8:e3:49
# SHA256 Fingerprint:
d7:a7:a0:fb:5d:7e:27:31:d7:71:e9:48:4e:bc:de:f7:1d:5f:0c:3e:0a:29:48:78:2b:c8:3e:e0:ea:69:9e:f4

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=QuoVadis Root Certification Authority O=QuoVadis Limited OU=Root Certification Authority  
# Subject: CN=QuoVadis Root Certification Authority O=QuoVadis Limited OU=Root Certification Authority  
# Label: "QuoVadis Root CA"  
# Serial: 985026699  
# MD5 Fingerprint: 27:de:36:fe:72:b7:00:03:00:9d:f4:f0:1e:6c:04:24  
# SHA1 Fingerprint: de:3f:40:bd:50:93:d3:9b:6c:60:f6:da:bc:07:62:01:00:89:76:c9  
# SHA256 Fingerprint:  
a4:5e:de:3b:bb:f0:9c:8a:e1:5c:72:ef:c0:72:68:d6:93:a2:1c:99:6f:d5:1e:67:ca:07:94:60:fd:6d:88:73

-----BEGIN CERTIFICATE-----  
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-----END CERTIFICATE-----

# Issuer: CN=QuoVadis Root CA 2 O=QuoVadis Limited  
# Subject: CN=QuoVadis Root CA 2 O=QuoVadis Limited  
# Label: "QuoVadis Root CA 2"  
# Serial: 1289  
# MD5 Fingerprint: 5e:39:7b:dd:f8:ba:ec:82:e9:ac:62:ba:0c:54:00:2b  
# SHA1 Fingerprint: ca:3a:fb:cf:12:40:36:4b:44:b2:16:20:88:80:48:39:19:93:7c:f7  
# SHA256 Fingerprint:  
85:a0:dd:7d:d7:20:ad:b7:ff:05:f8:3d:54:2b:20:9d:c7:ff:45:28:f7:d6:77:b1:83:89:fe:a5:e5:c4:9e:86

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: O=SECOM Trust.net OU=Security Communication RootCA1

# Subject: O=SECOM Trust.net OU=Security Communication RootCA1

# Label: "Security Communication Root CA"

# Serial: 0

# MD5 Fingerprint: f1:bc:63:6a:54:e0:b5:27:f5:cd:e7:1a:e3:4d:6e:4a

# SHA1 Fingerprint: 36:b1:2b:49:f9:81:9e:d7:4c:9e:bc:38:0f:c6:56:8f:5d:ac:b2:f7

# SHA256 Fingerprint:

e7:5e:72:ed:9f:56:0e:ec:6e:b4:80:00:73:a4:3f:c3:ad:19:19:5a:39:22:82:01:78:95:97:4a:99:02:6b:6c

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Sonera Class2 CA O=Sonera

# Subject: CN=Sonera Class2 CA O=Sonera

# Label: "Sonera Class 2 Root CA"

# Serial: 29

# MD5 Fingerprint: a3:ec:75:0f:2e:88:df:fa:48:01:4e:0b:5c:48:6f:fb

# SHA1 Fingerprint: 37:f7:6d:e6:07:7c:90:c5:b1:3e:93:1a:b7:41:10:b4:f2:e4:9a:27

# SHA256 Fingerprint:

79:08:b4:03:14:c1:38:10:0b:51:8d:07:35:80:7f:fb:fc:f8:51:8a:00:95:33:71:05:ba:38:6b:15:3d:d9:27

-----BEGIN CERTIFICATE-----

MIIDIDCCAagAwIBAgIBHTANBgkqhkiG9w0BAQUFADA5MQswCQYDVQQGEwJGSTEP  
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-----END CERTIFICATE-----

# Issuer: CN=XRamp Global Certification Authority O=XRamp Security Services Inc  
OU=www.xrampsecurity.com  
# Subject: CN=XRamp Global Certification Authority O=XRamp Security Services Inc  
OU=www.xrampsecurity.com  
# Label: "XRamp Global CA Root"  
# Serial: 107108908803651509692980124233745014957  
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# SHA1 Fingerprint: b8:01:86:d1:eb:9c:86:a5:41:04:cf:30:54:f3:4c:52:b7:e5:58:c6  
# SHA256 Fingerprint:  
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-----END CERTIFICATE-----

# Issuer: O=The Go Daddy Group, Inc. OU=Go Daddy Class 2 Certification Authority  
# Subject: O=The Go Daddy Group, Inc. OU=Go Daddy Class 2 Certification Authority  
# Label: "Go Daddy Class 2 CA"  
# Serial: 0  
# MD5 Fingerprint: 91:de:06:25:ab:da:fd:32:17:0c:bb:25:17:2a:84:67  
# SHA1 Fingerprint: 27:96:ba:e6:3f:18:01:e2:77:26:1b:a0:d7:77:70:02:8f:20:ee:e4  
# SHA256 Fingerprint:  
c3:84:6b:f2:4b:9e:93:ca:64:27:4c:0e:c6:7c:1e:cc:5e:02:4f:fc:ac:d2:d7:40:19:35:0e:81:fe:54:6a:e4  
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-----END CERTIFICATE-----

# Issuer: O=Starfield Technologies, Inc. OU=Starfield Class 2 Certification Authority  
# Subject: O=Starfield Technologies, Inc. OU=Starfield Class 2 Certification Authority  
# Label: "Starfield Class 2 CA"  
# Serial: 0  
# MD5 Fingerprint: 32:4a:4b:bb:c8:63:69:9b:be:74:9a:c6:dd:1d:46:24  
# SHA1 Fingerprint: ad:7e:1c:28:b0:64:ef:8f:60:03:40:20:14:c3:d0:e3:37:0e:b5:8a  
# SHA256 Fingerprint:  
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-----END CERTIFICATE-----

# Issuer: O=Government Root Certification Authority  
# Subject: O=Government Root Certification Authority  
# Label: "Taiwan GRCA"  
# Serial: 42023070807708724159991140556527066870  
# MD5 Fingerprint: 37:85:44:53:32:45:1f:20:f0:f3:95:e1:25:c4:43:4e  
# SHA1 Fingerprint: f4:8b:11:bf:de:ab:be:94:54:20:71:e6:41:de:6b:be:88:2b:40:b9  
# SHA256 Fingerprint:  
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-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=DigiCert Assured ID Root CA O=DigiCert Inc OU=www.digicert.com  
# Subject: CN=DigiCert Assured ID Root CA O=DigiCert Inc OU=www.digicert.com  
# Label: "DigiCert Assured ID Root CA"  
# Serial: 17154717934120587862167794914071425081  
# MD5 Fingerprint: 87:ce:0b:7b:2a:0e:49:00:e1:58:71:9b:37:a8:93:72  
# SHA1 Fingerprint: 05:63:b8:63:0d:62:d7:5a:bb:c8:ab:1e:4b:df:b5:a8:99:b2:4d:43  
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-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=DigiCert Global Root CA O=DigiCert Inc OU=www.digicert.com



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Subject: CN=DigiCert Global Root CA O=DigiCert Inc OU=www.digicert.com
Label: "DigiCert Global Root CA"
Serial: 10944719598952040374951832963794454346
MD5 Fingerprint: 79:e4:a9:84:0d:7d:3a:96:d7:c0:4f:e2:43:4c:89:2e
SHA1 Fingerprint: a8:98:5d:3a:65:e5:e5:c4:b2:d7:d6:6d:40:c6:dd:2f:b1:9c:54:36
SHA256 Fingerprint:
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-----BEGIN CERTIFICATE-----
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Subject: CN=DigiCert High Assurance EV Root CA O=DigiCert Inc OU=www.digicert.com
Label: "DigiCert High Assurance EV Root CA"
Serial: 3553400076410547919724730734378100087
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# Issuer: CN=Class 2 Primary CA O=Certplus  
# Subject: CN=Class 2 Primary CA O=Certplus  
# Label: "Certplus Class 2 Primary CA"  
# Serial: 177770208045934040241468760488327595043  
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# SHA1 Fingerprint: 74:20:74:41:72:9c:dd:92:ec:79:31:d8:23:10:8d:c2:81:92:e2:bb  
# SHA256 Fingerprint:  
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# Issuer: CN=DST Root CA X3 O=Digital Signature Trust Co.  
# Subject: CN=DST Root CA X3 O=Digital Signature Trust Co.  
# Label: "DST Root CA X3"

# Serial: 91299735575339953335919266965803778155  
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# SHA256 Fingerprint:  
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# Issuer: CN=SwissSign Gold CA - G2 O=SwissSign AG  
# Subject: CN=SwissSign Gold CA - G2 O=SwissSign AG  
# Label: "SwissSign Gold CA - G2"  
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# Issuer: CN=SwissSign Silver CA - G2 O=SwissSign AG  
# Subject: CN=SwissSign Silver CA - G2 O=SwissSign AG  
# Label: "SwissSign Silver CA - G2"  
# Serial: 5700383053117599563  
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-----END CERTIFICATE-----

# Issuer: CN=GeoTrust Primary Certification Authority O=GeoTrust Inc.  
# Subject: CN=GeoTrust Primary Certification Authority O=GeoTrust Inc.  
# Label: "GeoTrust Primary Certification Authority"  
# Serial: 32798226551256963324313806436981982369  
# MD5 Fingerprint: 02:26:c3:01:5e:08:30:37:43:a9:d0:7d:cf:37:e6:bf  
# SHA1 Fingerprint: 32:3c:11:8e:1b:f7:b8:b6:52:54:e2:e2:10:0d:d6:02:90:37:f0:96  
# SHA256 Fingerprint:  
37:d5:10:06:c5:12:ea:ab:62:64:21:f1:ec:8c:92:01:3f:c5:f8:2a:e9:8e:e5:33:eb:46:19:b8:de:b4:d0:6c  
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-----END CERTIFICATE-----

# Issuer: CN=thawte Primary Root CA O=thawte, Inc. OU=Certification Services Division/(c) 2006 thawte, Inc. -  
For authorized use only  
# Subject: CN=thawte Primary Root CA O=thawte, Inc. OU=Certification Services Division/(c) 2006 thawte, Inc. -  
For authorized use only

# Label: "thawte Primary Root CA"  
# Serial: 69529181992039203566298953787712940909  
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8d:72:2f:81:a9:c1:13:c0:79:1d:f1:36:a2:96:6d:b2:6c:95:0a:97:1d:b4:6b:41:99:f4:ea:54:b7:8b:fb:9f  
-----BEGIN CERTIFICATE-----  
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-----END CERTIFICATE-----

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5 O=VeriSign, Inc. OU=VeriSign Trust  
Network/(c) 2006 VeriSign, Inc. - For authorized use only  
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5 O=VeriSign, Inc. OU=VeriSign Trust  
Network/(c) 2006 VeriSign, Inc. - For authorized use only  
# Label: "VeriSign Class 3 Public Primary Certification Authority - G5"  
# Serial: 33037644167568058970164719475676101450  
# MD5 Fingerprint: cb:17:e4:31:67:3e:e2:09:fe:45:57:93:f3:0a:fa:1c  
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# SHA256 Fingerprint:  
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-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Secure Global CA O=SecureTrust Corporation  
# Subject: CN=Secure Global CA O=SecureTrust Corporation  
# Label: "Secure Global CA"  
# Serial: 9751836167731051554232119481456978597  
# MD5 Fingerprint: cf:f4:27:0d:d4:ed:dc:65:16:49:6d:3d:da:bf:6e:de  
# SHA1 Fingerprint: 3a:44:73:5a:e5:81:90:1f:24:86:61:46:1e:3b:9c:c4:5f:f5:3a:1b  
# SHA256 Fingerprint:  
42:00:f5:04:3a:c8:59:0e:bb:52:7d:20:9e:d1:50:30:29:fb:cb:d4:1c:a1:b5:06:ec:27:f1:5a:de:7d:ac:69  
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-----END CERTIFICATE-----

# Issuer: CN=COMODO Certification Authority O=COMODO CA Limited  
# Subject: CN=COMODO Certification Authority O=COMODO CA Limited  
# Label: "COMODO Certification Authority"  
# Serial: 104350513648249232941998508985834464573  
# MD5 Fingerprint: 5c:48:dc:f7:42:72:ec:56:94:6d:1c:cc:71:35:80:75  
# SHA1 Fingerprint: 66:31:bf:9e:f7:4f:9e:b6:c9:d5:a6:0c:ba:6a:be:d1:f7:bd:ef:7b  
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-----END CERTIFICATE-----

# Issuer: CN=Network Solutions Certificate Authority O=Network Solutions L.L.C.  
# Subject: CN=Network Solutions Certificate Authority O=Network Solutions L.L.C.  
# Label: "Network Solutions Certificate Authority"

# Serial: 116697915152937497490437556386812487904

# MD5 Fingerprint: d3:f3:a6:16:c0:fa:6b:1d:59:b1:2d:96:4d:0e:11:2e

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# SHA256 Fingerprint:

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-----END CERTIFICATE-----

# Issuer: CN=COMODO ECC Certification Authority O=COMODO CA Limited  
# Subject: CN=COMODO ECC Certification Authority O=COMODO CA Limited  
# Label: "COMODO ECC Certification Authority"  
# Serial: 41578283867086692638256921589707938090  
# MD5 Fingerprint: 7c:62:ff:74:9d:31:53:5e:68:4a:d5:78:aa:1e:bf:23  
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-----END CERTIFICATE-----

# Issuer: CN=OISTE WISEKey Global Root GA CA O=WISEKey OU=Copyright (c) 2005/OISTE Foundation  
Endorsed  
# Subject: CN=OISTE WISEKey Global Root GA CA O=WISEKey OU=Copyright (c) 2005/OISTE Foundation  
Endorsed  
# Label: "OISTE WISEKey Global Root GA CA"  
# Serial: 86718877871133159090080555911823548314  
# MD5 Fingerprint: bc:6c:51:33:a7:e9:d3:66:63:54:15:72:1b:21:92:93  
# SHA1 Fingerprint: 59:22:a1:e1:5a:ea:16:35:21:f8:98:39:6a:46:46:b0:44:1b:0f:a9  
# SHA256 Fingerprint:  
41:c9:23:86:6a:b4:ca:d6:b7:ad:57:80:81:58:2e:02:07:97:a6:cb:df:4f:ff:78:ce:83:96:b3:89:37:d7:f5

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-----END CERTIFICATE-----

# Issuer: CN=Certigna O=Dhimyotis  
# Subject: CN=Certigna O=Dhimyotis  
# Label: "Certigna"  
# Serial: 18364802974209362175  
# MD5 Fingerprint: ab:57:a6:5b:7d:42:82:19:b5:d8:58:26:28:5e:fd:ff  
# SHA1 Fingerprint: b1:2e:13:63:45:86:a4:6f:1a:b2:60:68:37:58:2d:c4:ac:fd:94:97  
# SHA256 Fingerprint:  
e3:b6:a2:db:2e:d7:ce:48:84:2f:7a:c5:32:41:c7:b7:1d:54:14:4b:fb:40:c1:1f:3f:1d:0b:42:f5:ee:a1:2d

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MIIDqDCCApCgAwIBAgIJAP7c4wEPyUj/MA0GCSqGSIb3DQEBBQUAMDQxCzAJBgNV  
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-----END CERTIFICATE-----

# Issuer: CN=Deutsche Telekom Root CA 2 O=Deutsche Telekom AG OU=T-TeleSec Trust Center  
# Subject: CN=Deutsche Telekom Root CA 2 O=Deutsche Telekom AG OU=T-TeleSec Trust Center  
# Label: "Deutsche Telekom Root CA 2"  
# Serial: 38  
# MD5 Fingerprint: 74:01:4a:91:b1:08:c4:58:ce:47:cd:f0:dd:11:53:08  
# SHA1 Fingerprint: 85:a4:08:c0:9c:19:3e:5d:51:58:7d:cd:d6:13:30:fd:8c:de:37:bf  
# SHA256 Fingerprint:  
b6:19:1a:50:d0:c3:97:7f:7d:a9:9b:cd:aa:c8:6a:22:7d:ae:b9:67:9e:c7:0b:a3:b0:c9:d9:22:71:c1:70:d3

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-----END CERTIFICATE-----

# Issuer: CN=Cybertrust Global Root O=Cybertrust, Inc  
# Subject: CN=Cybertrust Global Root O=Cybertrust, Inc  
# Label: "Cybertrust Global Root"  
# Serial: 4835703278459682877484360  
# MD5 Fingerprint: 72:e4:4a:87:e3:69:40:80:77:ea:bc:e3:f4:ff:f0:e1  
# SHA1 Fingerprint: 5f:43:e5:b1:bf:f8:78:8c:ac:1c:c7:ca:4a:9a:c6:22:2b:cc:34:c6  
# SHA256 Fingerprint:  
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-----END CERTIFICATE-----

# Issuer: O=certSIGN OU=certSIGN ROOT CA  
# Subject: O=certSIGN OU=certSIGN ROOT CA  
# Label: "certSIGN ROOT CA"  
# Serial: 35210227249154  
# MD5 Fingerprint: 18:98:c0:d6:e9:3a:fc:f9:b0:f5:0c:f7:4b:01:44:17  
# SHA1 Fingerprint: fa:b7:ee:36:97:26:62:fb:2d:b0:2a:f6:bf:03:fd:e8:7c:4b:2f:9b  
# SHA256 Fingerprint:  
ea:a9:62:c4:fa:4a:6b:af:eb:e4:15:19:6d:35:1c:cd:88:8d:4f:53:f3:fa:8a:e6:d7:c4:66:a9:4e:60:42:bb  
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-----END CERTIFICATE-----

# Issuer: CN=GeoTrust Primary Certification Authority - G3 O=GeoTrust Inc. OU=(c) 2008 GeoTrust Inc. - For  
authorized use only  
# Subject: CN=GeoTrust Primary Certification Authority - G3 O=GeoTrust Inc. OU=(c) 2008 GeoTrust Inc. - For  
authorized use only  
# Label: "GeoTrust Primary Certification Authority - G3"  
# Serial: 28809105769928564313984085209975885599  
# MD5 Fingerprint: b5:e8:34:36:c9:10:44:58:48:70:6d:2e:83:d4:b8:05  
# SHA1 Fingerprint: 03:9e:ed:b8:0b:e7:a0:3c:69:53:89:3b:20:d2:d9:32:3a:4c:2a:fd  
# SHA256 Fingerprint:

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-----END CERTIFICATE-----

# Issuer: CN=thawte Primary Root CA - G2 O=thawte, Inc. OU=(c) 2007 thawte, Inc. - For authorized use only  
# Subject: CN=thawte Primary Root CA - G2 O=thawte, Inc. OU=(c) 2007 thawte, Inc. - For authorized use only  
# Label: "thawte Primary Root CA - G2"  
# Serial: 71758320672825410020661621085256472406  
# MD5 Fingerprint: 74:9d:ea:60:24:c4:fd:22:53:3e:cc:3a:72:d9:29:4f  
# SHA1 Fingerprint: aa:db:bc:22:23:8f:c4:01:a1:27:bb:38:dd:f4:1d:db:08:9e:f0:12  
# SHA256 Fingerprint:

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-----BEGIN CERTIFICATE-----

MIICiDCCAg2gAwIBAgIQNfwmXNmET8k9Jj1Xm67XVjAKBggqhkjOPQQDAzCBhDEL  
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XZ3Krr0TKUQNJ1uo52icEvdYPy5yAlejj6EULg==

-----END CERTIFICATE-----

# Issuer: CN=thawte Primary Root CA - G3 O=thawte, Inc. OU=Certification Services Division/(c) 2008 thawte, Inc. - For authorized use only

# Subject: CN=thawte Primary Root CA - G3 O=thawte, Inc. OU=Certification Services Division/(c) 2008 thawte, Inc. - For authorized use only

# Label: "thawte Primary Root CA - G3"

# Serial: 127614157056681299805556476275995414779

# MD5 Fingerprint: fb:1b:5d:43:8a:94:cd:44:c6:76:f2:43:4b:47:e7:31

# SHA1 Fingerprint: f1:8b:53:8d:1b:e9:03:b6:a6:f0:56:43:5b:17:15:89:ca:f3:6b:f2

# SHA256 Fingerprint:

4b:03:f4:58:07:ad:70:f2:1b:fc:2c:ae:71:c9:fd:e4:60:4c:06:4c:f5:ff:b6:86:ba:e5:db:aa:d7:fd:d3:4c

-----BEGIN CERTIFICATE-----

MIIEKjCCAxKgAwIBAgIQYAGXt0an6rS0mtZLL/eQ+zANBgkqhkiG9w0BAQsFADCB  
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MdRAGmI0Nj81Aa6sY6A=

-----END CERTIFICATE-----

# Issuer: CN=GeoTrust Primary Certification Authority - G2 O=GeoTrust Inc. OU=(c) 2007 GeoTrust Inc. - For authorized use only

# Subject: CN=GeoTrust Primary Certification Authority - G2 O=GeoTrust Inc. OU=(c) 2007 GeoTrust Inc. - For authorized use only

# Label: "GeoTrust Primary Certification Authority - G2"

# Serial: 80682863203381065782177908751794619243

# MD5 Fingerprint: 01:5e:d8:6b:bd:6f:3d:8e:a1:31:f8:12:e0:98:73:6a

# SHA1 Fingerprint: 8d:17:84:d5:37:f3:03:7d:ec:70:fe:57:8b:51:9a:99:e6:10:d7:b0

# SHA256 Fingerprint:



5e:db:7a:c4:3b:82:a0:6a:87:61:e8:d7:be:49:79:eb:f2:61:1f:d7:d7:9b:f9:1c:1c:6b:56:6a:21:9e:d7:66

-----BEGIN CERTIFICATE-----

MIIcRjCCAjWgAwIBAgIQPLLOSAoA4v7rJDteYD7DazAKBggqhkJOPQQDAzCBMDEL  
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-----END CERTIFICATE-----

# Issuer: CN=VeriSign Universal Root Certification Authority O=VeriSign, Inc. OU=VeriSign Trust Network/(c)  
2008 VeriSign, Inc. - For authorized use only

# Subject: CN=VeriSign Universal Root Certification Authority O=VeriSign, Inc. OU=VeriSign Trust Network/(c)  
2008 VeriSign, Inc. - For authorized use only

# Label: "VeriSign Universal Root Certification Authority"

# Serial: 85209574734084581917763752644031726877

# MD5 Fingerprint: 8e:ad:b5:01:aa:4d:81:e4:8c:1d:d1:e1:14:00:95:19

# SHA1 Fingerprint: 36:79:ca:35:66:87:72:30:4d:30:a5:fb:87:3b:0f:a7:7b:b7:0d:54

# SHA256 Fingerprint:

23:99:56:11:27:a5:71:25:de:8c:ef:ea:61:0d:df:2f:a0:78:b5:c8:06:7f:4e:82:82:90:bf:b8:60:e8:4b:3c

-----BEGIN CERTIFICATE-----

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7M2CYfE45k+XmCpajQ==  
-----END CERTIFICATE-----

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4 O=VeriSign, Inc. OU=VeriSign Trust Network/(c) 2007 VeriSign, Inc. - For authorized use only

# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4 O=VeriSign, Inc. OU=VeriSign Trust Network/(c) 2007 VeriSign, Inc. - For authorized use only

# Label: "VeriSign Class 3 Public Primary Certification Authority - G4"

# Serial: 63143484348153506665311985501458640051

# MD5 Fingerprint: 3a:52:e1:e7:fd:6f:3a:e3:6f:f3:6f:99:1b:f9:22:41

# SHA1 Fingerprint: 22:d5:d8:df:8f:02:31:d1:8d:f7:9d:b7:cf:8a:2d:64:c9:3f:6c:3a

# SHA256 Fingerprint:

69:dd:d7:ea:90:bb:57:c9:3e:13:5d:c8:5e:a6:fc:d5:48:0b:60:32:39:bd:c4:54:fc:75:8b:2a:26:cf:7f:79

-----BEGIN CERTIFICATE-----

MIIDhDCCAwwqAwIBAgIQ4D+I4wOIg9IZxIokYesszAKBggqhkJOPQQDAzCBYjEL  
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ZXJpU2lnbiBUcnVzdCBOZXR3b3JrMTowOAYDVQQLEzEoYykgMjAwNyBWXZJpU2ln  
biwgSW5jLiAtIEZvcjBhdXRob3JpemVkIHVzZSBvbmx5MUUwQWYDVQQDEzZWZXJp  
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-----END CERTIFICATE-----

# Issuer: CN=NetLock Arany (Class Gold) Ftanstvny O=NetLock Kft. OU=Tanstvnykiadk (Certification Services)

# Subject: CN=NetLock Arany (Class Gold) Ftanstvny O=NetLock Kft. OU=Tanstvnykiadk (Certification Services)

# Label: "NetLock Arany (Class Gold) Ftanstvny"

# Serial: 80544274841616

# MD5 Fingerprint: c5:a1:b7:ff:73:dd:d6:d7:34:32:18:df:fc:3c:ad:88

# SHA1 Fingerprint: 06:08:3f:59:3f:15:a1:04:a0:69:a4:6b:a9:03:d0:06:b7:97:09:91

# SHA256 Fingerprint:

6c:61:da:c3:a2:de:f0:31:50:6b:e0:36:d2:a6:fe:40:19:94:fb:d1:3d:f9:c8:d4:66:59:92:74:c4:46:ec:98

-----BEGIN CERTIFICATE-----

MIIFTCCA v2gAwIBAgI GSUEs5AAQMA0GCSqGSIb3DQEBCwUAMIGnMQswCQYDVQQG EwJIVTERMA8GA1UEBwwlQnVkYXBlc3QxFTATBgNVBAoMDE5ldExvY2sgS2Z0LjE3 MDUGA1UECwwvVGFWw7pzW610dsOhbnlraWFkfw7NrlChDZXJ0aWZpY2F0aW9uIFNI cnZpY2VzKTE1MDMGA1UEAwwsTmV0TG9jayBBcmFueSAoQ2xhc3MgR29sZCkgRswR dGFuw7pzW610dsOhbnkwHhcNMDgxMjExMTUwODIxWhcNMjgxMjA2MTUwODIxWjCB pzELMAkGA1UEBhmMCSFUxETAPBgNVBACMCEJlZGFwZXN0MRUwEwYDVQQKDAxOZXRM b2NrlEtmtdC4xNzA1BgNVBAsMLlRhsO6c8OtdHbDoW55a2lhZMOzayAoQ2VydGlm aWNhdGlvbmlBTZXJ2aWNlcykxNTAzBgNVBAMMLE5ldExvY2sgQXJhbnkgKENsYXNz IEdvbGQpIEBkXrHbsO6c8OtdHbDoW55MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8A MIIBCgKCAQEAXCRec75LbRTDofTjl5Bu0jBFHjzuZ9lk4BqKf8owyoPjIMHj9DrT IF8afFttvzBPhCf2nx9JvMaZCPdyD/V/Q4Q3Y1GLEqVw/HpYzY6b7cNGbIRwXdrz AZAj/E4wqX7hJ2Pn7WQ8oLjJM2P+FpD/sLj916jAwJRDC7bVWaaeVtAkH3B5r9s5 VA1lddkVQZQBr17s9o3x/61k/iCa11zr/qYfCGSji3ZVr47KGAuhyXoqq8fxmRG ILdfwzzeSNuWU7c5d+Qa4scWhHaXWy+7GRWF+GmF9ZmnqfI0p6m2pgP8b4Y9VHx2 BJtr+UBdADTHLpl1neWIA6pN+APSQnBAGwIDAKiLo0UwQzASBgNVHRMBAf8ECDAG AQH/AgEEMA4GA1UdDwEB/wQEAwIBBjAdBgNVHQ4EFgQUzPpnk/C2uNClwB7zU/2M U9+D15YwDQYJKoZIhvcNAQELBQADggEBAKt/7hwWqZw8UQCgwBEIBaeZ5m8BiFRh bvG5GK1Krf6BQCOUL/t1fC8oS2IkgYIL9WHxHG64YTjrgfpioTtaYtOUZcTh5m2C +C8leLlhJsFyUR+MLMOEkMNaj7rP9KdlpeuY0fsFskZ1FSNqb4VjMIDw1Z4fKRzC bLBQWV2QWzuoDTDPv31/zvGdg73JRm4gppvlhUbohL3u+pRVjodSVh/GeufOJ8z2F uLjbrvW5KfnaNwUASZQDhETnv0Mxz3WLJdH0pmT1kvarBes96aULNmLazAZfNou2 XjG4Kvte9nHfRCaexOYNkbQudZWAUWpLMKawYqGT8ZvYzsRjdT9ZR7E=

-----END CERTIFICATE-----

# Issuer: CN=Staat der Nederlanden Root CA - G2 O=Staat der Nederlanden

# Subject: CN=Staat der Nederlanden Root CA - G2 O=Staat der Nederlanden

# Label: "Staat der Nederlanden Root CA - G2"

# Serial: 10000012

# MD5 Fingerprint: 7c:a5:0f:f8:5b:9a:7d:6d:30:ae:54:5a:e3:42:a2:8a

# SHA1 Fingerprint: 59:af:82:79:91:86:c7:b4:75:07:cb:cf:03:57:46:eb:04:dd:b7:16

# SHA256 Fingerprint:

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-----BEGIN CERTIFICATE-----

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# Subject: CN=Hongkong Post Root CA 1 O=Hongkong Post  
# Label: "Hongkong Post Root CA 1"  
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# SHA256 Fingerprint:  
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# Subject: CN=SecureSign RootCA11 O=Japan Certification Services, Inc.  
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# Issuer: CN=Microsec e-Szigno Root CA 2009 O=Microsec Ltd.  
# Subject: CN=Microsec e-Szigno Root CA 2009 O=Microsec Ltd.  
# Label: "Microsec e-Szigno Root CA 2009"  
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Label: "Autoridad de Certificacion Firmaprofesional CIF A62634068"
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Subject: CN=Izenpe.com O=IZENPE S.A.
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QyYBNWNgVYkDONXYukrZVP/u3oDYLdE41V4tC5h9Pmzb/CaIwx==  
-----END CERTIFICATE-----

# Issuer: CN=Chambers of Commerce Root - 2008 O=AC Camerfirma S.A.  
# Subject: CN=Chambers of Commerce Root - 2008 O=AC Camerfirma S.A.  
# Label: "Chambers of Commerce Root - 2008"  
# Serial: 11806822484801597146  
# MD5 Fingerprint: 5e:80:9e:84:5a:0e:65:0b:17:02:f3:55:18:2a:3e:d7  
# SHA1 Fingerprint: 78:6a:74:ac:76:ab:14:7f:9c:6a:30:50:ba:9e:a8:7e:fe:9a:ce:3c  
# SHA256 Fingerprint:  
06:3e:4a:fa:c4:91:df:d3:32:f3:08:9b:85:42:e9:46:17:d8:93:d7:fe:94:4e:10:a7:93:7e:e2:9d:96:93:c0  
-----BEGIN CERTIFICATE-----  
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-----END CERTIFICATE-----

- # Issuer: CN=Global Chambersign Root - 2008 O=AC Camerfirma S.A.
- # Subject: CN=Global Chambersign Root - 2008 O=AC Camerfirma S.A.
- # Label: "Global Chambersign Root - 2008"
- # Serial: 14541511773111788494
- # MD5 Fingerprint: 9e:80:ff:78:01:0c:2e:c1:36:bd:fe:96:90:6e:08:f3
- # SHA1 Fingerprint: 4a:bd:ee:ec:95:0d:35:9c:89:ae:c7:52:a1:2c:5b:29:f6:d6:aa:0c
- # SHA256 Fingerprint:



# SHA1 Fingerprint: 47:be:ab:c9:22:ea:e8:0e:78:78:34:62:a7:9f:45:c2:54:fd:e6:8b  
# SHA256 Fingerprint:  
45:14:0b:32:47:eb:9c:c8:c5:b4:f0:d7:b5:30:91:f7:32:92:08:9e:6e:5a:63:e2:74:9d:d3:ac:a9:19:8e:da  
-----BEGIN CERTIFICATE-----  
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4uJEvlz36hz1  
-----END CERTIFICATE-----

# Issuer: CN=Starfield Root Certificate Authority - G2 O=Starfield Technologies, Inc.  
# Subject: CN=Starfield Root Certificate Authority - G2 O=Starfield Technologies, Inc.  
# Label: "Starfield Root Certificate Authority - G2"  
# Serial: 0  
# MD5 Fingerprint: d6:39:81:c6:52:7e:96:69:fc:fc:ca:66:ed:05:f2:96  
# SHA1 Fingerprint: b5:1c:06:7c:ee:2b:0c:3d:f8:55:ab:2d:92:f4:fe:39:d4:e7:0f:0e  
# SHA256 Fingerprint:  
2c:e1:cb:0b:f9:d2:f9:e1:02:99:3f:be:21:51:52:c3:b2:dd:0c:ab:de:1c:68:e5:31:9b:83:91:54:db:b7:f5  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Starfield Services Root Certificate Authority - G2 O=Starfield Technologies, Inc.  
# Subject: CN=Starfield Services Root Certificate Authority - G2 O=Starfield Technologies, Inc.  
# Label: "Starfield Services Root Certificate Authority - G2"  
# Serial: 0  
# MD5 Fingerprint: 17:35:74:af:7b:61:1c:eb:f4:f9:3c:e2:ee:40:f9:a2  
# SHA1 Fingerprint: 92:5a:8f:8d:2c:6d:04:e0:66:5f:59:6a:ff:22:d8:63:e8:25:6f:3f  
# SHA256 Fingerprint:  
56:8d:69:05:a2:c8:87:08:a4:b3:02:51:90:ed:cf:ed:b1:97:4a:60:6a:13:c6:e5:29:0f:cb:2a:e6:3e:da:b5  
-----BEGIN CERTIFICATE-----

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sSi6  
-----END CERTIFICATE-----

# Issuer: CN=AffirmTrust Commercial O=AffirmTrust  
# Subject: CN=AffirmTrust Commercial O=AffirmTrust  
# Label: "AffirmTrust Commercial"  
# Serial: 8608355977964138876

# MD5 Fingerprint: 82:92:ba:5b:ef:cd:8a:6f:a6:3d:55:f9:84:f6:d6:b7  
# SHA1 Fingerprint: f9:b5:b6:32:45:5f:9c:be:ec:57:5f:80:dc:e9:6e:2c:c7:b2:78:b7  
# SHA256 Fingerprint:  
03:76:ab:1d:54:c5:f9:80:3c:e4:b2:e2:01:a0:ee:7e:ef:7b:57:b6:36:e8:a9:3c:9b:8d:48:60:c9:6f:5f:a7  
-----BEGIN CERTIFICATE-----  
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-----END CERTIFICATE-----

# Issuer: CN=AffirmTrust Networking O=AffirmTrust  
# Subject: CN=AffirmTrust Networking O=AffirmTrust  
# Label: "AffirmTrust Networking"  
# Serial: 8957382827206547757  
# MD5 Fingerprint: 42:65:ca:be:01:9a:9a:4c:a9:8c:41:49:cd:c0:d5:7f  
# SHA1 Fingerprint: 29:36:21:02:8b:20:ed:02:f5:66:c5:32:d1:d6:ed:90:9f:45:00:2f  
# SHA256 Fingerprint:  
0a:81:ec:5a:92:97:77:f1:45:90:4a:f3:8d:5d:50:9f:66:b5:e2:c5:8f:cd:b5:31:05:8b:0e:17:f3:f0:b4:1b  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=AffirmTrust Premium O=AffirmTrust  
# Subject: CN=AffirmTrust Premium O=AffirmTrust  
# Label: "AffirmTrust Premium"  
# Serial: 7893706540734352110  
# MD5 Fingerprint: c4:5d:0e:48:b6:ac:28:30:4e:0a:bc:f9:38:16:87:57  
# SHA1 Fingerprint: d8:a6:33:2c:e0:03:6f:b1:85:f6:63:4f:7d:6a:06:65:26:32:28:27  
# SHA256 Fingerprint:  
70:a7:3f:7f:37:6b:60:07:42:48:90:45:34:b1:14:82:d5:bf:0e:69:8e:cc:49:8d:f5:25:77:eb:f2:e9:3b:9a  
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-----END CERTIFICATE-----

# Issuer: CN=AffirmTrust Premium ECC O=AffirmTrust  
# Subject: CN=AffirmTrust Premium ECC O=AffirmTrust

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Label: "AffirmTrust Premium ECC"
Serial: 8401224907861490260
MD5 Fingerprint: 64:b0:09:55:cf:b1:d5:99:e2:be:13:ab:a6:5d:ea:4d
SHA1 Fingerprint: b8:23:6b:00:2f:1d:16:86:53:01:55:6c:11:a4:37:ca:eb:ff:c3:bb
SHA256 Fingerprint:
bd:71:fd:f6:da:97:e4:cf:62:d1:64:7a:dd:25:81:b0:7d:79:ad:f8:39:7e:b4:ec:ba:9c:5e:84:88:82:14:23
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-----END CERTIFICATE-----

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Issuer: CN=Certum Trusted Network CA O=Unizeto Technologies S.A. OU=Certum Certification Authority
Subject: CN=Certum Trusted Network CA O=Unizeto Technologies S.A. OU=Certum Certification Authority
Label: "Certum Trusted Network CA"
Serial: 279744
MD5 Fingerprint: d5:e9:81:40:c5:18:69:fc:46:2c:89:75:62:0f:aa:78
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SHA256 Fingerprint:
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-----END CERTIFICATE-----

# Issuer: CN=TWCA Root Certification Authority O=TAIWAN-CA OU=Root CA  
# Subject: CN=TWCA Root Certification Authority O=TAIWAN-CA OU=Root CA  
# Label: "TWCA Root Certification Authority"  
# Serial: 1  
# MD5 Fingerprint: aa:08:8f:f6:f9:7b:b7:f2:b1:a7:1e:9b:ea:ea:bd:79  
# SHA1 Fingerprint: cf:9e:87:6d:d3:eb:fc:42:26:97:a3:b5:a3:7a:a0:76:a9:06:23:48  
# SHA256 Fingerprint:  
bf:d8:8f:e1:10:1c:41:ae:3e:80:1b:f8:be:56:35:0e:e9:ba:d1:a6:b9:bd:51:5e:dc:5c:6d:5b:87:11:ac:44

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-----END CERTIFICATE-----

# Issuer: O=SECOM Trust Systems CO.,LTD. OU=Security Communication RootCA2  
# Subject: O=SECOM Trust Systems CO.,LTD. OU=Security Communication RootCA2  
# Label: "Security Communication RootCA2"  
# Serial: 0  
# MD5 Fingerprint: 6c:39:7d:a4:0e:55:59:b2:3f:d6:41:b1:12:50:de:43  
# SHA1 Fingerprint: 5f:3b:8c:f2:f8:10:b3:7d:78:b4:ce:ec:19:19:c3:73:34:b9:c7:74  
# SHA256 Fingerprint:  
51:3b:2c:ec:b8:10:d4:cd:e5:dd:85:39:1a:df:c6:c2:dd:60:d8:7b:b7:36:d2:b5:21:48:4a:a4:7a:0e:be:f6

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-----END CERTIFICATE-----

# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011 O=Hellenic Academic and Research  
Institutions Cert. Authority  
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011 O=Hellenic Academic and Research  
Institutions Cert. Authority  
# Label: "Hellenic Academic and Research Institutions RootCA 2011"  
# Serial: 0  
# MD5 Fingerprint: 73:9f:4c:4b:73:5b:79:e9:fa:ba:1c:ef:6e:cb:d5:c9  
# SHA1 Fingerprint: fe:45:65:9b:79:03:5b:98:a1:61:b5:51:2e:ac:da:58:09:48:22:4d  
# SHA256 Fingerprint:  
bc:10:4f:15:a4:8b:e7:09:dc:a5:42:a7:e1:d4:b9:df:6f:05:45:27:e8:02:ea:a9:2d:59:54:44:25:8a:fe:71  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Actalis Authentication Root CA O=Actalis S.p.A./03358520967  
# Subject: CN=Actalis Authentication Root CA O=Actalis S.p.A./03358520967  
# Label: "Actalis Authentication Root CA"

# Serial: 6271844772424770508  
# MD5 Fingerprint: 69:c1:0d:4f:07:a3:1b:c3:fe:56:3d:04:bc:11:f6:a6  
# SHA1 Fingerprint: f3:73:b3:87:06:5a:28:84:8a:f2:f3:4a:ce:19:2b:dd:c7:8e:9c:ac  
# SHA256 Fingerprint:  
55:92:60:84:ec:96:3a:64:b9:6e:2a:be:01:ce:0b:a8:6a:64:fb:fe:bc:c7:aa:b5:af:c1:55:b3:7f:d7:60:66  
-----BEGIN CERTIFICATE-----  
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-----END CERTIFICATE-----

# Issuer: O=Trustis Limited OU=Trustis FPS Root CA  
# Subject: O=Trustis Limited OU=Trustis FPS Root CA  
# Label: "Trustis FPS Root CA"  
# Serial: 36053640375399034304724988975563710553  
# MD5 Fingerprint: 30:c9:e7:1e:6b:e6:14:eb:65:b2:16:69:20:31:67:4d  
# SHA1 Fingerprint: 3b:c0:38:0b:33:c3:f6:a6:0c:86:15:22:93:d9:df:f5:4b:81:c0:04  
# SHA256 Fingerprint:  
c1:b4:82:99:ab:a5:20:8f:e9:63:0a:ce:55:ca:68:a0:3e:da:5a:51:9c:88:02:a0:d3:a6:73:be:8f:8e:55:7d  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Buypass Class 2 Root CA O=Buypass AS-983163327  
# Subject: CN=Buypass Class 2 Root CA O=Buypass AS-983163327  
# Label: "Buypass Class 2 Root CA"  
# Serial: 2  
# MD5 Fingerprint: 46:a7:d2:fe:45:fb:64:5a:a8:59:90:9b:78:44:9b:29  
# SHA1 Fingerprint: 49:0a:75:74:de:87:0a:47:fe:58:ee:f6:c7:6b:eb:c6:0b:12:40:99  
# SHA256 Fingerprint:  
9a:11:40:25:19:7c:5b:b9:5d:94:e6:3d:55:cd:43:79:08:47:b6:46:b2:3c:df:11:ad:a4:a0:0e:ff:15:fb:48

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-----END CERTIFICATE-----

# Issuer: CN=Buypass Class 3 Root CA O=Buypass AS-983163327  
# Subject: CN=Buypass Class 3 Root CA O=Buypass AS-983163327  
# Label: "Buypass Class 3 Root CA"  
# Serial: 2  
# MD5 Fingerprint: 3d:3b:18:9e:2c:64:5a:e8:d5:88:ce:0e:f9:37:c2:ec  
# SHA1 Fingerprint: da:fa:f7:fa:66:84:ec:06:8f:14:50:bd:c7:c2:81:a5:bc:a9:64:57  
# SHA256 Fingerprint:  
ed:f7:eb:bc:a2:7a:2a:38:4d:38:7b:7d:40:10:c6:66:e2:ed:b4:84:3e:4c:29:b4:ae:1d:5b:93:32:e6:b2:4d  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=T-TeleSec GlobalRoot Class 3 O=T-Systems Enterprise Services GmbH OU=T-Systems Trust Center  
# Subject: CN=T-TeleSec GlobalRoot Class 3 O=T-Systems Enterprise Services GmbH OU=T-Systems Trust Center  
# Label: "T-TeleSec GlobalRoot Class 3"  
# Serial: 1  
# MD5 Fingerprint: ca:fb:40:a8:4e:39:92:8a:1d:fe:8e:2f:c4:27:ea:ef  
# SHA1 Fingerprint: 55:a6:72:3e:cb:f2:ec:cd:c3:23:74:70:19:9d:2a:be:11:e3:81:d1  
# SHA256 Fingerprint:  
fd:73:da:d3:1c:64:4f:f1:b4:3b:ef:0c:cd:da:96:71:0b:9c:d9:87:5e:ca:7e:31:70:7a:f3:e9:6d:52:2b:bd

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=EE Certification Centre Root CA O=AS Sertifitseerimiskeskus  
# Subject: CN=EE Certification Centre Root CA O=AS Sertifitseerimiskeskus  
# Label: "EE Certification Centre Root CA"  
# Serial: 112324828676200291871926431888494945866  
# MD5 Fingerprint: 43:5e:88:d4:7d:1a:4a:7e:fd:84:2e:52:eb:01:d4:6f  
# SHA1 Fingerprint: c9:a8:b9:e7:55:80:5e:58:e3:53:77:a7:25:eb:af:c3:7b:27:cc:d7  
# SHA256 Fingerprint:  
3e:84:ba:43:42:90:85:16:e7:75:73:c0:99:2f:09:79:ca:08:4e:46:85:68:1f:f1:95:cc:ba:8a:22:9b:8a:76

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=D-TRUST Root Class 3 CA 2 2009 O=D-Trust GmbH  
# Subject: CN=D-TRUST Root Class 3 CA 2 2009 O=D-Trust GmbH  
# Label: "D-TRUST Root Class 3 CA 2 2009"  
# Serial: 623603  
# MD5 Fingerprint: cd:e0:25:69:8d:47:ac:9c:89:35:90:f7:fd:51:3d:2f  
# SHA1 Fingerprint: 58:e8:ab:b0:36:15:33:fb:80:f7:9b:1b:6d:29:d3:ff:8d:5f:00:f0  
# SHA256 Fingerprint:  
49:e7:a4:42:ac:f0:ea:62:87:05:00:54:b5:25:64:b6:50:e4:f4:9e:42:e3:48:d6:aa:38:e0:39:e9:57:b1:c1  
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-----END CERTIFICATE-----

# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009 O=D-Trust GmbH  
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009 O=D-Trust GmbH  
# Label: "D-TRUST Root Class 3 CA 2 EV 2009"  
# Serial: 623604  
# MD5 Fingerprint: aa:c6:43:2c:5e:2d:cd:c4:34:c0:50:4f:11:02:4f:b6  
# SHA1 Fingerprint: 96:c9:1b:0b:95:b4:10:98:42:fa:d0:d8:22:79:fe:60:fa:b9:16:83  
# SHA256 Fingerprint:  
ee:c5:49:6b:98:8c:e9:86:25:b9:34:09:2e:ec:29:08:be:d0:b0:f3:16:c2:d4:73:0c:84:ea:f1:f3:d3:48:81  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=CA Disig Root R2 O=Disig a.s.  
# Subject: CN=CA Disig Root R2 O=Disig a.s.  
# Label: "CA Disig Root R2"  
# Serial: 10572350602393338211  
# MD5 Fingerprint: 26:01:fb:d8:27:a7:17:9a:45:54:38:1a:43:01:3b:03



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SHA1 Fingerprint: b5:61:eb:ea:a4:de:e4:25:4b:69:1a:98:a5:57:47:c2:34:c7:d9:71
SHA256 Fingerprint:
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-----END CERTIFICATE-----
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Issuer: CN=ACCVRAIZ1 O=ACCV OU=PKIACCV
Subject: CN=ACCVRAIZ1 O=ACCV OU=PKIACCV
Label: "ACCVRAIZ1"
Serial: 6828503384748696800
MD5 Fingerprint: d0:a0:5a:ee:05:b6:09:94:21:a1:7d:f1:b2:29:82:02
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SHA256 Fingerprint:
9a:6e:c0:12:e1:a7:da:9d:be:34:19:4d:47:8a:d7:c0:db:18:22:fb:07:1d:f1:29:81:49:6e:d1:04:38:41:13
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-----END CERTIFICATE-----

# Issuer: CN=TWCA Global Root CA O=TAIWAN-CA OU=Root CA  
# Subject: CN=TWCA Global Root CA O=TAIWAN-CA OU=Root CA  
# Label: "TWCA Global Root CA"  
# Serial: 3262  
# MD5 Fingerprint: f9:03:7e:cf:e6:9e:3c:73:7a:2a:90:07:69:ff:2b:96  
# SHA1 Fingerprint: 9c:bb:48:53:f6:a4:f6:d3:52:a4:e8:32:52:55:60:13:f5:ad:af:65  
# SHA256 Fingerprint:  
59:76:90:07:f7:68:5d:0f:cd:50:87:2f:9f:95:d5:75:5a:5b:2b:45:7d:81:f3:69:2b:61:0a:98:67:2f:0e:1b

-----BEGIN CERTIFICATE-----

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# Issuer: CN=TeliaSonera Root CA v1 O=TeliaSonera  
# Subject: CN=TeliaSonera Root CA v1 O=TeliaSonera  
# Label: "TeliaSonera Root CA v1"  
# Serial: 199041966741090107964904287217786801558  
# MD5 Fingerprint: 37:41:49:1b:18:56:9a:26:f5:ad:c2:66:fb:40:a5:4c  
# SHA1 Fingerprint: 43:13:bb:96:f1:d5:86:9b:c1:4e:6a:92:f6:cf:f6:34:69:87:82:37  
# SHA256 Fingerprint:  
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-----END CERTIFICATE-----

# Issuer: CN=T-TeleSec GlobalRoot Class 2 O=T-Systems Enterprise Services GmbH OU=T-Systems Trust Center  
# Subject: CN=T-TeleSec GlobalRoot Class 2 O=T-Systems Enterprise Services GmbH OU=T-Systems Trust  
Center  
# Label: "T-TeleSec GlobalRoot Class 2"  
# Serial: 1  
# MD5 Fingerprint: 2b:9b:9e:e4:7b:6c:1f:00:72:1a:cc:c1:77:79:df:6a  
# SHA1 Fingerprint: 59:0d:2d:7d:88:4f:40:2e:61:7e:a5:62:32:17:65:cf:17:d8:94:e9  
# SHA256 Fingerprint:  
91:e2:f5:78:8d:58:10:eb:a7:ba:58:73:7d:e1:54:8a:8e:ca:cd:01:45:98:bc:0b:14:3e:04:1b:17:05:25:52

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# Issuer: CN=Atos TrustedRoot 2011 O=Atos  
# Subject: CN=Atos TrustedRoot 2011 O=Atos  
# Label: "Atos TrustedRoot 2011"  
# Serial: 6643877497813316402  
# MD5 Fingerprint: ae:b9:c4:32:4b:ac:7f:5d:66:cc:77:94:bb:2a:77:56  
# SHA1 Fingerprint: 2b:b1:f5:3e:55:0c:1d:c5:f1:d4:e6:b7:6a:46:4b:55:06:02:ac:21  
# SHA256 Fingerprint:  
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# Issuer: CN=QuoVadis Root CA 1 G3 O=QuoVadis Limited  
# Subject: CN=QuoVadis Root CA 1 G3 O=QuoVadis Limited  
# Label: "QuoVadis Root CA 1 G3"  
# Serial: 687049649626669250736271037606554624078720034195  
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# SHA1 Fingerprint: 1b:8e:ea:57:96:29:1a:c9:39:ea:b8:0a:81:1a:73:73:c0:93:79:67  
# SHA256 Fingerprint:  
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-----END CERTIFICATE-----

# Issuer: CN=QuoVadis Root CA 2 G3 O=QuoVadis Limited  
# Subject: CN=QuoVadis Root CA 2 G3 O=QuoVadis Limited  
# Label: "QuoVadis Root CA 2 G3"  
# Serial: 390156079458959257446133169266079962026824725800  
# MD5 Fingerprint: af:0c:86:6e:bf:40:2d:7f:0b:3e:12:50:ba:12:3d:06  
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8f:e4:fb:0a:f9:3a:4d:0d:67:db:0b:eb:b2:3e:37:c7:1b:f3:25:dc:bc:dd:24:0e:a0:4d:af:58:b4:7e:18:40  
-----BEGIN CERTIFICATE-----

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# Issuer: CN=QuoVadis Root CA 3 G3 O=QuoVadis Limited  
# Subject: CN=QuoVadis Root CA 3 G3 O=QuoVadis Limited  
# Label: "QuoVadis Root CA 3 G3"  
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# SHA1 Fingerprint: 48:12:bd:92:3c:a8:c4:39:06:e7:30:6d:27:96:e6:a4:cf:22:2e:7d  
# SHA256 Fingerprint:  
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# Label: "DigiCert Assured ID Root G2"  
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# Issuer: CN=DigiCert Assured ID Root G3 O=DigiCert Inc OU=www.digicert.com  
# Subject: CN=DigiCert Assured ID Root G3 O=DigiCert Inc OU=www.digicert.com  
# Label: "DigiCert Assured ID Root G3"  
# Serial: 15459312981008553731928384953135426796

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-----END CERTIFICATE-----
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Label: "DigiCert Global Root G2"
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cb:3c:cb:b7:60:31:e5:e0:13:8f:8d:d3:9a:23:f9:de:47:ff:c3:5e:43:c1:14:4c:ea:27:d4:6a:5a:b1:cb:5f
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# Subject: CN=DigiCert Global Root G3 O=DigiCert Inc OU=www.digicert.com  
# Label: "DigiCert Global Root G3"  
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# Issuer: CN=DigiCert Trusted Root G4 O=DigiCert Inc OU=www.digicert.com  
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# Label: "DigiCert Trusted Root G4"  
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-----END CERTIFICATE-----

# Issuer: CN=COMODO RSA Certification Authority O=COMODO CA Limited  
# Subject: CN=COMODO RSA Certification Authority O=COMODO CA Limited  
# Label: "COMODO RSA Certification Authority"  
# Serial: 101909084537582093308941363524873193117  
# MD5 Fingerprint: 1b:31:b0:71:40:36:cc:14:36:91:ad:c4:3e:fd:ec:18  
# SHA1 Fingerprint: af:e5:d2:44:a8:d1:19:42:30:ff:47:9f:e2:f8:97:bb:cd:7a:8c:b4  
# SHA256 Fingerprint:  
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-----END CERTIFICATE-----

# Issuer: CN=USERTrust RSA Certification Authority O=The USERTRUST Network  
# Subject: CN=USERTrust RSA Certification Authority O=The USERTRUST Network  
# Label: "USERTrust RSA Certification Authority"  
# Serial: 2645093764781058787591871645665788717  
# MD5 Fingerprint: 1b:fe:69:d1:91:b7:19:33:a3:72:a8:0f:e1:55:e5:b5  
# SHA1 Fingerprint: 2b:8f:1b:57:33:0d:bb:a2:d0:7a:6c:51:f7:0e:e9:0d:da:b9:ad:8e  
# SHA256 Fingerprint:  
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-----END CERTIFICATE-----

# Issuer: CN=USERTrust ECC Certification Authority O=The USERTRUST Network  
# Subject: CN=USERTrust ECC Certification Authority O=The USERTRUST Network  
# Label: "USERTrust ECC Certification Authority"  
# Serial: 123013823720199481456569720443997572134  
# MD5 Fingerprint: fa:68:bc:d9:b5:7f:ad:fd:c9:1d:06:83:28:cc:24:c1  
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# SHA256 Fingerprint:  
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-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=GlobalSign O=GlobalSign OU=GlobalSign ECC Root CA - R4  
# Subject: CN=GlobalSign O=GlobalSign OU=GlobalSign ECC Root CA - R4  
# Label: "GlobalSign ECC Root CA - R4"  
# Serial: 14367148294922964480859022125800977897474  
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-----END CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=GlobalSign O=GlobalSign OU=GlobalSign ECC Root CA - R5  
# Subject: CN=GlobalSign O=GlobalSign OU=GlobalSign ECC Root CA - R5  
# Label: "GlobalSign ECC Root CA - R5"  
# Serial: 32785792099990507226680698011560947931244  
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# SHA1 Fingerprint: 1f:24:c6:30:cd:a4:18:ef:20:69:ff:ad:4f:dd:5f:46:3a:1b:69:aa  
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17:9f:bc:14:8a:3d:d0:0f:d2:4e:a1:34:58:cc:43:bf:a7:f5:9c:81:82:d7:83:a5:13:f6:eb:ec:10:0c:89:24  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Staat der Nederlanden Root CA - G3 O=Staat der Nederlanden  
# Subject: CN=Staat der Nederlanden Root CA - G3 O=Staat der Nederlanden  
# Label: "Staat der Nederlanden Root CA - G3"  
# Serial: 10003001  
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# SHA1 Fingerprint: d8:eb:6b:41:51:92:59:e0:f3:e7:85:00:c0:3d:b6:88:97:c9:ee:fc  
# SHA256 Fingerprint:  
3c:4f:b0:b9:5a:b8:b3:00:32:f4:32:b8:6f:53:5f:e1:72:c1:85:d0:fd:39:86:58:37:cf:36:18:7f:a6:f4:28  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Staat der Nederlanden EV Root CA O=Staat der Nederlanden  
# Subject: CN=Staat der Nederlanden EV Root CA O=Staat der Nederlanden  
# Label: "Staat der Nederlanden EV Root CA"  
# Serial: 10000013  
# MD5 Fingerprint: fc:06:af:7b:e8:1a:f1:9a:b4:e8:d2:70:1f:c0:f5:ba  
# SHA1 Fingerprint: 76:e2:7e:c1:4f:db:82:c1:c0:a6:75:b5:05:be:3d:29:b4:ed:db:bb  
# SHA256 Fingerprint:  
4d:24:91:41:4c:fe:95:67:46:ec:4c:ef:a6:cf:6f:72:e2:8a:13:29:43:2f:9d:8a:90:7a:c4:cb:5d:ad:c1:5a

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=IdenTrust Commercial Root CA 1 O=IdenTrust  
# Subject: CN=IdenTrust Commercial Root CA 1 O=IdenTrust  
# Label: "IdenTrust Commercial Root CA 1"  
# Serial: 13298821034946342390520003877796839426  
# MD5 Fingerprint: b3:3e:77:73:75:ee:a0:d3:e3:7e:49:63:49:59:bb:c7  
# SHA1 Fingerprint: df:71:7e:aa:4a:d9:4e:c9:55:84:99:60:2d:48:de:5f:bc:f0:3a:25  
# SHA256 Fingerprint:  
5d:56:49:9b:e4:d2:e0:8b:cf:ca:d0:8a:3e:38:72:3d:50:50:3b:de:70:69:48:e4:2f:55:60:30:19:e5:28:ae

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-----END CERTIFICATE-----

# Issuer: CN=IdenTrust Public Sector Root CA 1 O=IdenTrust  
# Subject: CN=IdenTrust Public Sector Root CA 1 O=IdenTrust  
# Label: "IdenTrust Public Sector Root CA 1"  
# Serial: 13298821034946342390521976156843933698  
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# SHA1 Fingerprint: ba:29:41:60:77:98:3f:f4:f3:ef:f2:31:05:3b:2e:ea:6d:4d:45:fd  
# SHA256 Fingerprint:  
30:d0:89:5a:9a:44:8a:26:20:91:63:55:22:d1:f5:20:10:b5:86:7a:ca:e1:2c:78:ef:95:8f:d4:f4:38:9f:2f  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Entrust Root Certification Authority - G2 O=Entrust, Inc. OU=See www.entrust.net/legal-terms/(c)  
2009 Entrust, Inc. - for authorized use only  
# Subject: CN=Entrust Root Certification Authority - G2 O=Entrust, Inc. OU=See www.entrust.net/legal-terms/(c)  
2009 Entrust, Inc. - for authorized use only  
# Label: "Entrust Root Certification Authority - G2"  
# Serial: 1246989352  
# MD5 Fingerprint: 4b:e2:c9:91:96:65:0c:f4:0e:5a:93:92:a0:0a:fe:b2  
# SHA1 Fingerprint: 8c:f4:27:fd:79:0c:3a:d1:66:06:8d:e8:1e:57:ef:bb:93:22:72:d4  
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-----END CERTIFICATE-----

# Issuer: CN=Entrust Root Certification Authority - EC1 O=Entrust, Inc. OU=See www.entrust.net/legal-terms/(c)  
2012 Entrust, Inc. - for authorized use only  
# Subject: CN=Entrust Root Certification Authority - EC1 O=Entrust, Inc. OU=See www.entrust.net/legal-terms/(c)  
2012 Entrust, Inc. - for authorized use only  
# Label: "Entrust Root Certification Authority - EC1"  
# Serial: 51543124481930649114116133369  
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# SHA256 Fingerprint:  
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# Issuer: CN=Certinomis - Root CA O=Certinomis OU=0002 433998903  
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# Issuer: CN=Certum Trusted Network CA 2 O=Unizeto Technologies S.A. OU=Certum Certification Authority  
# Subject: CN=Certum Trusted Network CA 2 O=Unizeto Technologies S.A. OU=Certum Certification Authority  
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# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015 O=Hellenic Academic and Research  
Institutions Cert. Authority  
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015 O=Hellenic Academic and Research  
Institutions Cert. Authority  
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-----END CERTIFICATE-----

# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015 O=Hellenic Academic and Research  
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# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015 O=Hellenic Academic and  
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# Issuer: CN=Certplus Root CA G1 O=Certplus  
# Subject: CN=Certplus Root CA G1 O=Certplus  
# Label: "Certplus Root CA G1"  
# Serial: 1491911565779898356709731176965615564637713  
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-----END CERTIFICATE-----

# Issuer: CN=Certplus Root CA G2 O=Certplus  
# Subject: CN=Certplus Root CA G2 O=Certplus  
# Label: "Certplus Root CA G2"  
# Serial: 1492087096131536844209563509228951875861589  
# MD5 Fingerprint: a7:ee:c4:78:2d:1b:ee:2d:b9:29:ce:d6:a7:96:32:31  
# SHA1 Fingerprint: 4f:65:8e:1f:e9:06:d8:28:02:e9:54:47:41:c9:54:25:5d:69:cc:1a  
# SHA256 Fingerprint:

6c:c0:50:41:e6:44:5e:74:69:6c:4c:fb:c9:f8:0f:54:3b:7e:ab:bb:44:b4:ce:6f:78:7c:6a:99:71:c4:2f:17  
-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=OpenTrust Root CA G1 O=OpenTrust  
# Subject: CN=OpenTrust Root CA G1 O=OpenTrust  
# Label: "OpenTrust Root CA G1"  
# Serial: 1492036577811947013770400127034825178844775  
# MD5 Fingerprint: 76:00:cc:81:29:cd:55:5e:88:6a:7a:2e:f7:4d:39:da  
# SHA1 Fingerprint: 79:91:e8:34:f7:e2:ee:dd:08:95:01:52:e9:55:2d:14:e9:58:d5:7e  
# SHA256 Fingerprint:  
56:c7:71:28:d9:8c:18:d9:1b:4c:fd:ff:bc:25:ee:91:03:d4:75:8e:a2:ab:ad:82:6a:90:f3:45:7d:46:0e:b4  
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-----END CERTIFICATE-----

# Issuer: CN=OpenTrust Root CA G2 O=OpenTrust

# Subject: CN=OpenTrust Root CA G2 O=OpenTrust  
# Label: "OpenTrust Root CA G2"  
# Serial: 1492012448042702096986875987676935573415441  
# MD5 Fingerprint: 57:24:b6:59:24:6b:ae:c8:fe:1c:0c:20:f2:c0:4e:eb  
# SHA1 Fingerprint: 79:5f:88:60:c5:ab:7c:3d:92:e6:cb:f4:8d:e1:45:cd:11:ef:60:0b  
# SHA256 Fingerprint:  
27:99:58:29:fe:6a:75:15:c1:bf:e8:48:f9:c4:76:1d:b1:6c:22:59:29:25:7b:f4:0d:08:94:f2:9e:a8:ba:f2  
-----BEGIN CERTIFICATE-----  
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-----END CERTIFICATE-----

# Issuer: CN=OpenTrust Root CA G3 O=OpenTrust  
# Subject: CN=OpenTrust Root CA G3 O=OpenTrust  
# Label: "OpenTrust Root CA G3"  
# Serial: 1492104908271485653071219941864171170455615  
# MD5 Fingerprint: 21:37:b4:17:16:92:7b:67:46:70:a9:96:d7:a8:13:24  
# SHA1 Fingerprint: 6e:26:64:f3:56:bf:34:55:bf:d1:93:3f:7c:01:de:d8:13:da:8a:a6  
# SHA256 Fingerprint:  
b7:c3:62:31:70:6e:81:07:8c:36:7c:b8:96:19:8f:1e:32:08:dd:92:69:49:dd:8f:57:09:a4:10:f7:5b:62:92

-----BEGIN CERTIFICATE-----

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# Issuer: CN=ISRG Root X1 O=Internet Security Research Group  
# Subject: CN=ISRG Root X1 O=Internet Security Research Group  
# Label: "ISRG Root X1"  
# Serial: 172886928669790476064670243504169061120  
# MD5 Fingerprint: 0c:d2:f9:e0:da:17:73:e9:ed:86:4d:a5:e3:70:e7:4e  
# SHA1 Fingerprint: ca:bd:2a:79:a1:07:6a:31:f2:1d:25:36:35:cb:03:9d:43:29:a5:e8  
# SHA256 Fingerprint:  
96:bc:ec:06:26:49:76:f3:74:60:77:9a:cf:28:c5:a7:cf:e8:a3:c0:aa:e1:1a:8f:fc:ee:05:c0:bd:df:08:c6

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: O=FNMT-RCM OU=AC RAIZ FNMT-RCM  
# Subject: O=FNMT-RCM OU=AC RAIZ FNMT-RCM  
# Label: "AC RAIZ FNMT-RCM"  
# Serial: 485876308206448804701554682760554759  
# MD5 Fingerprint: e2:09:04:b4:d3:bd:d1:a0:14:fd:1a:d2:47:c4:57:1d  
# SHA1 Fingerprint: ec:50:35:07:b2:15:c4:95:62:19:e2:a8:9a:5b:42:99:2c:4c:2c:20  
# SHA256 Fingerprint:  
eb:c5:57:0c:29:01:8c:4d:67:b1:aa:12:7b:af:12:f7:03:b4:61:1e:bc:17:b7:da:b5:57:38:94:17:9b:93:fa

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Amazon Root CA 1 O=Amazon  
# Subject: CN=Amazon Root CA 1 O=Amazon  
# Label: "Amazon Root CA 1"  
# Serial: 143266978916655856878034712317230054538369994  
# MD5 Fingerprint: 43:c6:bf:ae:ec:fe:ad:2f:18:c6:88:68:30:fc:c8:e6  
# SHA1 Fingerprint: 8d:a7:f9:65:ec:5e:fc:37:91:0f:1c:6e:59:fd:c1:cc:6a:6e:de:16  
# SHA256 Fingerprint:  
8e:cd:e6:88:4f:3d:87:b1:12:5b:a3:1a:c3:fc:b1:3d:70:16:de:7f:57:cc:90:4f:e1:cb:97:c6:ae:98:19:6e  
-----BEGIN CERTIFICATE-----  
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-----END CERTIFICATE-----

# Issuer: CN=Amazon Root CA 2 O=Amazon  
# Subject: CN=Amazon Root CA 2 O=Amazon  
# Label: "Amazon Root CA 2"  
# Serial: 143266982885963551818349160658925006970653239  
# MD5 Fingerprint: c8:e5:8d:ce:a8:42:e2:7a:c0:2a:5c:7c:9e:26:bf:66  
# SHA1 Fingerprint: 5a:8c:ef:45:d7:a6:98:59:76:7a:8c:8b:44:96:b5:78:cf:47:4b:1a  
# SHA256 Fingerprint:  
1b:a5:b2:aa:8c:65:40:1a:82:96:01:18:f8:0b:ec:4f:62:30:4d:83:ce:c4:71:3a:19:c3:9c:01:1e:a4:6d:b4  
-----BEGIN CERTIFICATE-----  
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-----END CERTIFICATE-----

# Issuer: CN=Amazon Root CA 3 O=Amazon  
# Subject: CN=Amazon Root CA 3 O=Amazon  
# Label: "Amazon Root CA 3"  
# Serial: 143266986699090766294700635381230934788665930  
# MD5 Fingerprint: a0:d4:ef:0b:f7:b5:d8:49:95:2a:ec:f5:c4:fc:81:87  
# SHA1 Fingerprint: 0d:44:dd:8c:3c:8c:1a:1a:58:75:64:81:e9:0f:2e:2a:ff:b3:d2:6e  
# SHA256 Fingerprint:  
18:ce:6c:fe:7b:fl:4e:60:b2:e3:47:b8:df:e8:68:cb:31:d0:2e:bb:3a:da:27:15:69:f5:03:43:b4:6d:b3:a4

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Amazon Root CA 4 O=Amazon  
# Subject: CN=Amazon Root CA 4 O=Amazon  
# Label: "Amazon Root CA 4"  
# Serial: 143266989758080763974105200630763877849284878  
# MD5 Fingerprint: 89:bc:27:d5:eb:17:8d:06:6a:69:d5:fd:89:47:b4:cd  
# SHA1 Fingerprint: f6:10:84:07:d6:f8:bb:67:98:0c:c2:e2:44:c2:eb:ae:1c:ef:63:be



# SHA256 Fingerprint:

e3:5d:28:41:9e:d0:20:25:cf:a6:90:38:cd:62:39:62:45:8d:a5:c6:95:fb:de:a3:c2:2b:0b:fb:25:89:70:92

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=LuxTrust Global Root 2 O=LuxTrust S.A.

# Subject: CN=LuxTrust Global Root 2 O=LuxTrust S.A.

# Label: "LuxTrust Global Root 2"

# Serial: 59914338225734147123941058376788110305822489521

# MD5 Fingerprint: b2:e1:09:00:61:af:f7:f1:91:6f:c4:ad:8d:5e:3b:7c

# SHA1 Fingerprint: 1e:0e:56:19:0a:d1:8b:25:98:b2:04:44:ff:66:8a:04:17:99:5f:3f

# SHA256 Fingerprint:

54:45:5f:71:29:c2:0b:14:47:c4:18:f9:97:16:8f:24:c5:8f:c5:02:3b:f5:da:5b:e2:eb:6e:1d:d8:90:2e:d5

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1 O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK OU=Kamu Sertifikasyon Merkezi - Kamu SM  
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1 O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK OU=Kamu Sertifikasyon Merkezi - Kamu SM  
# Label: "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"  
# Serial: 1  
# MD5 Fingerprint: dc:00:81:dc:69:2f:3e:2f:b0:3b:f6:3d:5a:91:8e:49  
# SHA1 Fingerprint: 31:43:64:9b:ec:ce:27:ec:ed:3a:3f:0b:8f:0d:e4:e8:91:dd:ee:ca  
# SHA256 Fingerprint:  
46:ed:c3:68:90:46:d5:3a:45:3f:b3:10:4a:b8:0d:ca:ec:65:8b:26:60:ea:16:29:dd:7e:86:79:90:64:87:16  
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# Issuer: CN=GDCA TrustAUTH R5 ROOT O=GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.

# Subject: CN=GDCA TrustAUTH R5 ROOT O=GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.  
# Label: "GDCA TrustAUTH R5 ROOT"  
# Serial: 9009899650740120186  
# MD5 Fingerprint: 63:cc:d9:3d:34:35:5c:6f:53:a3:e2:08:70:48:1f:b4  
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-----END CERTIFICATE-----

# Issuer: CN=TrustCor RootCert CA-1 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority  
# Subject: CN=TrustCor RootCert CA-1 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority  
# Label: "TrustCor RootCert CA-1"  
# Serial: 15752444095811006489  
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# SHA1 Fingerprint: ff:bd:cd:e7:82:c8:43:5e:3c:6f:26:86:5c:ca:a8:3a:45:5b:c3:0a  
# SHA256 Fingerprint:  
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-----END CERTIFICATE-----

# Issuer: CN=TrustCor RootCert CA-2 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority  
# Subject: CN=TrustCor RootCert CA-2 O=TrustCor Systems S. de R.L. OU=TrustCor Certificate Authority  
# Label: "TrustCor RootCert CA-2"  
# Serial: 2711694510199101698  
# MD5 Fingerprint: a2:e1:f8:18:0b:ba:45:d5:c7:41:2a:bb:37:52:45:64  
# SHA1 Fingerprint: b8:be:6d:cb:56:f1:55:b9:63:d4:12:ca:4e:06:34:c7:94:b2:1c:c0  
# SHA256 Fingerprint:  
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# Issuer: CN=SSL.com Root Certification Authority RSA O=SSL Corporation  
# Subject: CN=SSL.com Root Certification Authority RSA O=SSL Corporation  
# Label: "SSL.com Root Certification Authority RSA"  
# Serial: 8875640296558310041  
# MD5 Fingerprint: 86:69:12:c0:70:f1:ec:ac:ac:c2:d5:bc:a5:5b:a1:29  
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 UDkiFCbLsjtZdFVHB3mBOagwe0TIBIqulhMIQg+5U8Sb/M3kHN48+qvWBkofZ6aY  
 MBzdLNVcGJVXZsb/XItW9XcCAwEAAaNjMGEwDwYDVR0TAQH/BAUwAwEB/zAfbgNV  
 HSMEGDAWgBT5YLvU49U09rj1BoAlp3PbRmmonjAdBgNVHQ4EFgQU+WC71OPVNPaa  
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 79qGn5nX67evaOI5JpS6aLe/g9Pqemc9YmeuJeVy6OLk7K4S9ksrPJ/psEDzOFSz  
 /bdoyNrgJ1E8svuR3Bznm53htw1yj+KkxKl4+esUrMZDBcJIOSgYAsOCsp0FvmXt  
 lI9ldDz7CTUue5wT/RsPXcdtgTpWD8w74a8CLyKsRspGPKAcTNZEtf4uXBVmCeEm  
 Kf7GUmG6sXP/wwyc5WxqlD8UykAWIYTzWamsX0xhk23RO8yilQwipmdnRC652dKK  
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 S9EOUCXdywMMF8mDAAhONU2Ki+3wApRmLER/y5UnlhetCTCstnEXbosX9hwJ1C07  
 mKVx01QT2WDz9UtmT/rx7iASjbSsV7FFY6GsdqnC+w==

-----END CERTIFICATE-----

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 # Subject: CN=SSL.com EV Root Certification Authority ECC O=SSL Corporation  
 # Label: "SSL.com EV Root Certification Authority ECC"  
 # Serial: 3182246526754555285  
 # MD5 Fingerprint: 59:53:22:65:83:42:01:54:c0:ce:42:b9:5a:7c:f2:90  
 # SHA1 Fingerprint: 4c:dd:51:a3:d1:f5:20:32:14:b0:c6:c5:32:23:03:91:c7:46:42:6d  
 # SHA256 Fingerprint:  
 22:a2:c1:f7:bd:ed:70:4c:c1:e7:01:b5:f4:08:c3:10:88:0f:e9:56:b5:de:2a:4a:44:f9:9c:87:3a:25:a7:c8

-----BEGIN CERTIFICATE-----  
 MIICIDCCAhhqAwIBAgIILCmcWxhtBZUwCgYIKoZIzj0EAwIwfwzELMAkGA1UEBhMC  
 VVMxMmMm7I1HrrW9zzRHM76JTymGoEVW/MSD2zuZYrJh6j5B+BimoxcSg==  
 VVMxMmMm7I1HrrW9zzRHM76JTymGoEVW/MSD2zuZYrJh6j5B+BimoxcSg==  
 U0wgQ29ycG9yYXRpb24xNDAYBgNVBAMMK1NTTC5jb20gRVVYgUm9vdCBDZXXJ0aWZp  
 Y2F0aW9uIEF1dGhvcml0eSBFQ0MwHhcNMTYwMjYxMjYxMjYxMTUxMjYxMjYxMTUx  
 NTIzWjB/MQswCQYDVQQGEwJVUZEOMAwwGA1UECAwFVGVV4YXN0eSBFQ0MwHhcNMTYw  
 dXN0b24xGDAWBgNVBAoMD1NTTCBDb3Jwb3JhdGlvb24xNDAYBgNVBAMMK1NTTC5jb20g  
 bSBFVlBsB290IENlcncpZmljYXRpb24xNDAYBgNVBAMMK1NTTC5jb20gRVVYgUm9vd  
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 VIbc/R/fALhBYIzccBYy3h+Z1MzFB8gIH2EwB1E9fVwHU+M1OIzZ/ZLg1Kthku  
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 MA8GA1UdEwEB/wQFMAMBAf8wHwYDVR0jBBgwFoAUW8pe5d7SgarNqC1kUbbZcpuX  
 5k8wDgYDVR0PAQH/BAQDAgGMAoGCCqGSM49BAMCA2gAMGUUMQCK5kCJN+vp1RPZ  
 ytrRjPOwPYdGWBrssd9v+1a6cGvHOMzosYxPD/fxZ3YOg9AeUY8CMD32IygmTMZg  
 h5Mmm7I1HrrW9zzRHM76JTymGoEVW/MSD2zuZYrJh6j5B+BimoxcSg==  
 -----END CERTIFICATE-----



Found in path(s):

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/etc/roots.pem

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/\_cython/\_credentials/roots.pem

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\*/

/\*\* Signal that the call is cacheable. GRPC is free to use GET verb \*/

Found in path(s):

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/include/grpc/impl/codegen/grpc\_types.h

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/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/third\_party/zlib/examples/zran.c

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```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/x509v3/v3_cpols.c
```

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```
/* blast.h -- interface for blast.c
```

```
Copyright (C) 2003, 2012, 2013 Mark Adler
```

```
version 1.3, 24 Aug 2013
```

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Mark Adler madler@alumni.caltech.edu

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/zlib/contrib/blast/blast.h
```

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```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
```

1.14.1/third\_party/boringssl/ssl/ssl\_buffer.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/srtp.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/curve25519/ed25519\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/evp/pbkdf\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/curve25519.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/curve25519/x25519\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/ssl\_aead\_ctx.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/rand.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/test/file\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pkcs8/pkcs8\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/poly1305/poly1305\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/refcount\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/aes/aes\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/boringssl/err\_data.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bn\_extra/bn\_asn1.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/refcount\_c11.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/dtls1.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/buffer.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/generate\_ed25519.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/ec/util.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/genrsa.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cmac/cmac\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/refcount\_lock.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/test/file\_test.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/ciphers.cc

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/thread_win.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/thread_pthread.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/include/openssl/cmac.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/conf/internal.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/test/test_util.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/thread_test.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/thread_none.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/test/test_util.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/fipsmodule/rand/internal.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/ssl/ssl_key_share.cc
```

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```
*/
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ahost.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/adig.c
```

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1.14.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/gmock_class.py
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```

```
/*
 * puff.c
 * Copyright (C) 2002-2013 Mark Adler
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 * version 2.3, 21 Jan 2013
 *
 * puff.c is a simple inflate written to be an unambiguous way to specify the
 * deflate format. It is not written for speed but rather simplicity. As a
 * side benefit, this code might actually be useful when small code is more
 * important than speed, such as bootstrap applications. For typical deflate
 * data, zlib's inflate() is about four times as fast as puff(). zlib's
 * inflate compiles to around 20K on my machine, whereas puff.c compiles to
 * around 4K on my machine (a PowerPC using GNU cc). If the faster decode()
 * function here is used, then puff() is only twice as slow as zlib's
 * inflate().
 *
 * All dynamically allocated memory comes from the stack. The stack required
 * is less than 2K bytes. This code is compatible with 16-bit int's and
 * assumes that long's are at least 32 bits. puff.c uses the short data type,
 * assumed to be 16 bits, for arrays in order to conserve memory. The code
 * works whether integers are stored big endian or little endian.
 *
 * In the comments below are "Format notes" that describe the inflate process
 * and document some of the less obvious aspects of the format. This source
 * code is meant to supplement RFC 1951, which formally describes the deflate
 * format:
 *
 * http://www.zlib.org/rfc-deflate.html
 */
```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/zlib/contrib/puff/puff.c
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```

```
/* gzlib.c -- zlib functions common to reading and writing gzip files
 * Copyright (C) 2004-2017 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/zlib/gzlib.c

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/zlib/contrib/iostream2/zstream.h

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/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/codegear/gtest\_all.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/fused-src/gmock/gmock.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock\_output\_test.cc

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_tuple\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_prod\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_catch\_exceptions\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/sample2\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_help\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_prod\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/src/gtest\_filepath.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_xml\_output\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_throw\_on\_failure\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_all\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/sample3-inl.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_help\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-internal-utils\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest-message\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_premature\_exit\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/src/gtest-port.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/include/gmock/gmock-generated-function-mockers.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/include/gmock/internal/gmock-internal-utils.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/include/gtest/gtest-spi.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/include/gmock/gmock.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock\_link2\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/codegear/gtest\_link.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gtest-param-test.h

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_xml\_output\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/include/gtest/internal/custom/gtest-printers.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/xcode/Samples/FrameworkSample/widget.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_environment\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/src/gtest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-actions\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gtest-printers.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/xcode/Samples/FrameworkSample/widget\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/xcode/Samples/FrameworkSample/widget\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_xml\_outfile1\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/src/gtest-printers.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-generated-function-mockers\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_output\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_pred\_impl\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/src/gmock-all.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest-death-test\_ex\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample3-inl.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/include/gmock/gmock-matchers.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_xml\_outfile1\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-cardinalities\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/src/gtest-internal-inl.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-nice-strict\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest-param-test2\_test.cc

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_catch\_exceptions\_test\_.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest-param-test\_test.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/production.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/sample2.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_xml\_outfile2\_test\_.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_list\_tests\_unittest\_.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_shuffle\_test\_.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/internal/gtest-port.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample5\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gtest-message.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/internal/gtest-string.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-more-actions\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample4\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest-death-test\_ex\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest-port\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_repeat\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_break\_on\_failure\_unittest\_.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/include/gtest/internal/custom/gtest-port.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/src/gmock.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gtest-test-part.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/src/gmock-cardinalities.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_throw\_on\_failure\_ex\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/xcode/Samples/FrameworkSample/widget.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/src/gmock-internal-utils.cc

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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/sample1.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/src/gtest-port.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock\_all\_test.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/src/gtest-death-test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/sample1\_unittest.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/src/gtest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_all\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gtest-death-test.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-generated-internal-utils\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_uninitialized\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/sample4\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/include/gtest/gtest\_prod.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/src/gtest-all.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/samples/sample5\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample1\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest-death-test\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gtest\_pred\_impl.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/include/gtest/gtest\_pred\_impl.h

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/include/gtest/gtest-printers.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/include/gtest/internal/gtest-linked\_ptr.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-port\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_main\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/include/gmock/gmock-generated-matchers.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_throw\_on\_failure\_test\_.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/include/gtest/gtest-message.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/src/gtest\_main.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock\_test.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/include/gmock/internal/gmock-generated-internal-utils.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_environment\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_filter\_unittest\_.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample4.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-spec-builders\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/include/gmock/gmock-generated-nice-strict.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock\_leak\_test\_.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/src/gtest\_filepath.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/include/gtest/gtest-spi.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/codegear/gtest\_link.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest-param-test\_test.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock-generated-actions\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest-param-test\_test.cc

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/xcode/Samples/FrameworkSample/widget.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_shuffle\_test\_.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/src/gmock\_main.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_filter\_unittest\_.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock\_link\_test.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_list\_tests\_unittest.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/src/gtest-printers.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest-linked\_ptr\_test.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_no\_test\_unittest.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/codegear/gtest\_all.cc
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\*

\* This package is an SSL implementation written

\* by Eric Young (eay@cryptsoft.com).

\* The implementation was written so as to conform with Netscapes SSL.

\*

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```

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```

* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/ssl/handshake_server.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

```

1.14.1/third\_party/boringssl/ssl/s3\_lib.cc

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// +build amd64,!gccgo,!appengine

// These constants cannot be encoded in non-MOVQ immediates.

// We access them directly from memory instead.

DATA ·\_121666\_213(SB)/8, \$996687872

GLOBL ·\_121666\_213(SB), 8, \$8

DATA ·\_2P0(SB)/8, \$0xFFFFFFFFFFDA

GLOBL ·\_2P0(SB), 8, \$8

DATA ·\_2P1234(SB)/8, \$0xFFFFFFFFFFFE

GLOBL ·\_2P1234(SB), 8, \$8

Found in path(s):

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/third\_party/boringssl/ssl/test/runner/curve25519/const\_amd64.s

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/fipsmodule/aes/mode_wrappers.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/fipsmodule/aes/aes.c

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```

```

// +build amd64,!gccgo,!appengine

```

```

// func cswap(inout *[5]uint64, v uint64)

```

```
TEXT -cswap(SB),7,$0
MOVQ inout+0(FP),DI
MOVQ v+8(FP),SI

CMPQ SI,$1
MOVQ 0(DI),SI
MOVQ 80(DI),DX
MOVQ 8(DI),CX
MOVQ 88(DI),R8
MOVQ SI,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
CMOVQEQ R9,R8
MOVQ SI,0(DI)
MOVQ DX,80(DI)
MOVQ CX,8(DI)
MOVQ R8,88(DI)
MOVQ 16(DI),SI
MOVQ 96(DI),DX
MOVQ 24(DI),CX
MOVQ 104(DI),R8
MOVQ SI,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
CMOVQEQ R9,R8
MOVQ SI,16(DI)
MOVQ DX,96(DI)
MOVQ CX,24(DI)
MOVQ R8,104(DI)
MOVQ 32(DI),SI
MOVQ 112(DI),DX
MOVQ 40(DI),CX
MOVQ 120(DI),R8
MOVQ SI,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
CMOVQEQ R9,R8
MOVQ SI,32(DI)
MOVQ DX,112(DI)
MOVQ CX,40(DI)
MOVQ R8,120(DI)
MOVQ 48(DI),SI
```

```
MOVQ 128(DI),DX
MOVQ 56(DI),CX
MOVQ 136(DI),R8
MOVQ SI,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
CMOVQEQ R9,R8
MOVQ SI,48(DI)
MOVQ DX,128(DI)
MOVQ CX,56(DI)
MOVQ R8,136(DI)
MOVQ 64(DI),SI
MOVQ 144(DI),DX
MOVQ 72(DI),CX
MOVQ 152(DI),R8
MOVQ SI,R9
CMOVQEQ DX,SI
CMOVQEQ R9,DX
MOVQ CX,R9
CMOVQEQ R8,CX
CMOVQEQ R9,R8
MOVQ SI,64(DI)
MOVQ DX,144(DI)
MOVQ CX,72(DI)
MOVQ R8,152(DI)
MOVQ DI,AX
MOVQ SI,DX
RET
```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/ssl/test/runner/curve25519/cswap_amd64.s
```

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```

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```

```
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```

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```

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```
/* gzjoin -- command to join gzip files into one gzip file
```

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_ipv6.h

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\* version 2.2, 14 Aug 2012  
\*/

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/zlib/examples/gzlog.c

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/bio\_ssl.cc

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/include/openssl/asn1t.h
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1.14.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/gmock_gen.py
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```

```

/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/zlib/contrib/minizip/mztools.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/zlib/contrib/minizip/mztools.h

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1.14.1/third_party/boringssl/crypto/fipsmodule/aes/key_wrap.c

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 1.14.1/third\_party/boringssl/crypto/x509/x509cset.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
 1.14.1/third\_party/boringssl/crypto/pem/pem\_xaux.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
 1.14.1/third\_party/boringssl/crypto/pem/pem\_x509.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
 1.14.1/third\_party/boringssl/crypto/asn1/time\_support.c

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* Copyright (C) 1995-2003 Mark Adler
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*/
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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1.14.1/third\_party/boringssl/include/openssl/x509v3.h

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/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

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/\*

\* Utilities for constant-time cryptography.

\*

\* Author: Emilia Kasper (emilia@openssl.org)

\* Based on previous work by Bodo Moeller, Emilia Kasper, Adam Langley

\* (Google).

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\* Copyright (C) 1995-2005, 2010 Mark Adler  
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/\* minigzip.c -- simulate gzip using the zlib compression library

\* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly  
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/\* compress.c -- compress a memory buffer

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/nanopb/generator/nanopb\_generator.py

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/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

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See header of unzip64.c

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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/message\_size/message\_size\_filter.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/message\_size/message\_size\_filter.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/service\_config.cc

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/scripts/gen_gtest_pred_impl.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_xml_test_utils.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_break_on_failure_unittest.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_throw_on_failure_test.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/test/gmock_leak_test.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_test_utils.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/test/gmock_output_test.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest_xml_outfiles_test.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/third_party/googletest/test/gtest_env_var_test.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/third_party/googletest/test/gtest_break_on_failure_unittest.py
```

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_color\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_uninitialized\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/scripts/fuse\_gmock\_files.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_output\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/scripts/fuse\_gtest\_files.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/scripts/gen\_gtest\_pred\_impl.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/scripts/pump.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_output\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/scripts/pump.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_throw\_on\_failure\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_xml\_outfiles\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_help\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_list\_tests\_unittest.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/test/gmock\_test\_utils.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/xcode/Scripts/versiongenerate.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_xml\_output\_unittest.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_test\_utils.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_xml\_test\_utils.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/third\_party/googletest/test/gtest\_uninitialized\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_color\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_list\_tests\_unittest.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_env\_var\_test.py

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/scripts/fuse\_gtest\_files.py

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/base.h

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/test/packeted\_bio.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/test/test\_config.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/safestack.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/objects.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/test/async\_bio.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/rand.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pkcs7/pkcs7\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/base64/base64\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/speed.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/bytestring.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pkcs7/pkcs7.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bytestring/internal.h



\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bytestring/cbs.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/rand\_extra/windows.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/pkcs12.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/ssl\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/transport\_common.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/engine.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/test/packeted\_bio.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/transport\_common.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/aead\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bytestring/bytestring\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cpu-arm.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/test/async\_bio.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/pkcs7.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bio/bio\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/digest.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/oss\_l\_typ.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/pkcs12.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/const.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/hkdf.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/test/malloc.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/e\_chacha20poly1305.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/lhash/lhash\_test.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/poly1305/poly1305\_vec.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/client.cc

- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/tool.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/e\_tls.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/poly1305/poly1305.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/crypto.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/test/test\_config.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/args.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/digest\_extra/digest\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/internal.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/engine/engine.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/poly1305.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pkcs8/pkcs12\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/tool/server.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bytestring/ber.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/cipher/aead.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/rand/rand.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/lhash\_macros.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/e\_ssl3.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/ec/ec\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/rand/urandom.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/test/bssl\_shim.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/hkdf/hkdf\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bytestring/cbb.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bio/socket\_helper.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/opensslv.h

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/hkdf/hkdf.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/include/openssl/opensslconf.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/include/openssl/chacha.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/evp/evp_extra_test.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/ssl/custom_extensions.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/err/err_test.cc
```

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```
/* gun.c -- simple gzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/zlib/examples/gun.c
```

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```
/* Copyright (c) 2018, Google Inc.
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Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/cipher_extra/e_aesccm.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/fipsmodule/tls/internal.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/cpu-aarch64-fuchsia.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/fipstools/cavp_kas_test.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
```

1.14.1/third\_party/boringssl/fipstools/cavp\_tluskdf\_test.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/self\_test.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/ssl/handoff.cc  
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```
/* inffas8664.c is a hand tuned assembler version of inffast.c - fast decoding
* version for AMD64 on Windows using Microsoft C compiler
*
* Copyright (C) 1995-2003 Mark Adler
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*
* Copyright (C) 2003 Chris Anderson <christop@charm.net>
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*
* 2005 - Adaptation to Microsoft C Compiler for AMD64 by Gilles Vollant
*
* inffas8664.c call function inffas8664fnc in inffasx64.asm
* inffasx64.asm is automatically convert from AMD64 portion of inffas86.c
*
* Dec-29-2003 -- I added AMD64 inflate asm support. This version is also
* slightly quicker on x86 systems because, instead of using rep movsb to copy
* data, it uses rep movsw, which moves data in 2-byte chunks instead of single
* bytes. I've tested the AMD64 code on a Fedora Core 1 + the x86_64 updates
* from http://fedora.linux.duke.edu/fc1_x86_64
* which is running on an Athlon 64 3000+ / Gigabyte GA-K8VT800M system with
* 1GB ram. The 64-bit version is about 4% faster than the 32-bit version,
* when decompressing mozilla-source-1.3.tar.gz.
*
* Mar-13-2003 -- Most of this is derived from inffast.S which is derived from
* the gcc -S output of zlib-1.2.0/inffast.c. Zlib-1.2.0 is in beta release at
* the moment. I have successfully compiled and tested this code with gcc2.96,
* gcc3.2, icc5.0, msvc6.0. It is very close to the speed of inffast.S
* compiled with gcc -DNO_MMX, but inffast.S is still faster on the P3 with MMX
* enabled. I will attempt to merge the MMX code into this version. Newer
* versions of this and inffast.S can be found at
* http://www.eetbeetee.com/zlib/ and http://www.charm.net/~christop/zlib/
*
*/
```

Found in path(s):

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/zlib/contrib/masmx64/inffas8664.c  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/ext/filters/http/client/http\_client\_filter.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/ext/filters/http/client/http\_client\_filter.h

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/\* blast.c

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\* version 1.3, 24 Aug 2013

```

*
* blast.c decompresses data compressed by the PKWare Compression Library.
* This function provides functionality similar to the explode() function of
* the PKWare library, hence the name "blast".
*
* This decompressor is based on the excellent format description provided by
* Ben Rudiak-Gould in comp.compression on August 13, 2001. Interestingly, the
* example Ben provided in the post is incorrect. The distance 110001 should
* instead be 111000. When corrected, the example byte stream becomes:
*
* 00 04 82 24 25 8f 80 7f
*
* which decompresses to "AIAIAIAIAIAIA" (without the quotes).
*/

```

Found in path(s):

```

* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/zlib/contrib/blast/blast.c

```

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```

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```

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```

* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/ares_setup.h

```

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```

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```

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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/static\_metadata.cc

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_parse\_aaaa\_reply.c

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/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/zlib/uncompr.c

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509v3/v3_utl.c
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// (https://github.com/mit-plv/ fiat-crypto), which is MIT licensed.

```

Found in path(s):

```

* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/third_party/ fiat/p256.c
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/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

```

Found in path(s):

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/zlib/inffast.h

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/\* Originally written by Bodo Moeller and Nils Larsch for the OpenSSL project.

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- 1.14.1/third\_party/boringssl/crypto/x509v3/v3\_pmaps.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
- 1.14.1/third\_party/boringssl/crypto/x509v3/v3\_ncons.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
- 1.14.1/third\_party/boringssl/crypto/x509v3/v3\_pcons.c

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```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/evp/p_ec_asn1.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/evp/p_rsa_asn1.c
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_dns.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_expand_name.c
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pem/pem\_pk8.c
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/sha.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/third\_party/boringssl/crypto/x509/by\_file.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/dh.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/stack.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509\_cmp.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/e\_rc4.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pem/pem\_lib.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/buf.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/bio.h  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_all.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/conf.h  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/rsa\_extra/rsa\_test.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/rc4/rc4.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/f\_int.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/buf/buf.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_dup.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509\_ext.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/evp/internal.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_utctm.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/bytes.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509rset.c  
1.14.1/third\_party/boringssl/crypto/x509/x509rset.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bio/hexdump.c  
1.14.1/third\_party/boringssl/crypto/bio/hexdump.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/evp/evp.c  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_i2d\_fp.c  
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1.14.1/third\_party/boringssl/include/openssl/lhash.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/tasn\_enc.c  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509\_v3.c  
1.14.1/third\_party/boringssl/crypto/x509/x509\_v3.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_sig.c  
1.14.1/third\_party/boringssl/crypto/x509/x\_sig.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/ripemd/ripemd.c  
1.14.1/third\_party/boringssl/decrepit/ripemd/ripemd.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bio/connect.c  
1.14.1/third\_party/boringssl/crypto/bio/connect.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pem/pem\_oth.c  
1.14.1/third\_party/boringssl/crypto/pem/pem\_oth.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/dh/check.c  
1.14.1/third\_party/boringssl/crypto/dh/check.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509\_txt.c  
1.14.1/third\_party/boringssl/crypto/x509/x509\_txt.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/sha/sha512.c  
1.14.1/third\_party/boringssl/crypto/fipsmodule/sha/sha512.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/t\_req.c  
1.14.1/third\_party/boringssl/crypto/x509/t\_req.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/generic.c  
1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/generic.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/md5.h  
1.14.1/third\_party/boringssl/include/openssl/md5.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/asn\_pack.c  
1.14.1/third\_party/boringssl/crypto/asn1/asn\_pack.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/a\_sign.c  
1.14.1/third\_party/boringssl/crypto/x509/a\_sign.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/mem.c  
1.14.1/third\_party/boringssl/crypto/mem.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/md5/md5.c  
1.14.1/third\_party/boringssl/crypto/fipsmodule/md5/md5.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/blowfish/blowfish.c  
1.14.1/third\_party/boringssl/decrepit/blowfish/blowfish.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_pubkey.c  
1.14.1/third\_party/boringssl/crypto/x509/x\_pubkey.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/third\_party/boringssl/crypto/asn1/asn1\_lib.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/fipsmodule/rsa/internal.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/bio/bio.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/asn1/a\_bool.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/cmp.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/asn1/a\_object.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/lhash/lhash.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/x509/x509\_set.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/dh/dh\_test.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/x509/x\_x509.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/x509/t\_x509.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/include/openssl/cipher.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/obj/obj.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/x509/x509\_d2.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/evp/sign.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/x509/t\_crl.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/x509/x\_pkey.c  
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1.14.1/third\_party/boringssl/crypto/asn1/f\_enum.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/asn1/tasn\_dec.c  
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1.14.1/third\_party/boringssl/crypto/x509/a\_verify.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/x509/t\_x509a.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/decrepit/rsa/rsa\_decrepit.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/x509/i2d\_pr.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/asn1/a\_type.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-



1.14.1/third\_party/boringssl/crypto/cipher\_extra/cipher\_extra.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_utf8.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/evp/evp\_asn1.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/des/internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_gentm.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509name.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/a\_strex.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/sha/sha256.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/cast.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/cipher/e\_des.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/type\_check.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/evp/evp\_ctx.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/tasn\_utl.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bio/file.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/pem/pem\_pkey.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/f\_string.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_spki.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/md4.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_crl.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/mem.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/rsa.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/ripemd.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bio/bio\_mem.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/third\_party/boringssl/crypto/x509/x\_val.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/rc4.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509\_obj.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509\_req.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/derive\_key.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/tasn\_fre.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/thread.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/des.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/tasn\_typ.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bio/socket.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/bn.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_bitstr.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/add.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/sha/sha1-altivec.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509\_att.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/div.c  
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 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/a\_digest.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509\_vfy.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/blowfish.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_info.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/asn1\_gen.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x509\_lu.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/hmac/hmac.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/third\_party/boringssl/crypto/digest\_extra/digest\_extra.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/thread.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/md4/md4.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/mul.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_octet.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/cipher/internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/sha/sha1.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/tasn\_new.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_name.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/rc4/rc4\_decrepit.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/stack/stack.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_attrib.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/ssl\_privkey.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/des/des.c  
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 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/digest/internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/base64/base64.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_d2i\_fp.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cpu-intel.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/evp.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_req.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/rsa/rsa\_impl.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/hmac\_extra/hmac\_test.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/third\_party/boringssl/crypto/bio/internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/cast/internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_int.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/bio/base64\_bio.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/e\_null.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/asn1\_par.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/cipher/cipher.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_enum.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/algorithm.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/conf/conf.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/cast/cast\_tables.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/include/openssl/obj.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/x509/x\_exten.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/shift.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/asn1/a\_mbstr.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/e\_rc2.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/ripemd/internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/dh/dh.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/rsa/rsa.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/tls\_method.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/bio/printf.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/digest/digests.c  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/decrepit/macros.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/third\_party/boringssl/crypto/x509/x509\_def.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/bn\_extra/convert.c  
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```
/* inftree9.h -- header to use inftree9.c
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*/
```

Found in path(s):  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/zlib/contrib/inflate9/inftree9.h  
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509v3/v3_alt.c

```

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/* Copyright 1998 by the Massachusetts Institute of Technology.

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* Copyright (C) 2010 Jeremy Lal <kapouer@melix.org>

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/ares_parse_mx_reply.c

```

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```

/* "grpc/_cython/cygrpc.pyx":1
* # Copyright 2015 gRPC authors. # <<<<<<<<<<<<<<<<<<<<
* #

```

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/\_cython/cygrpc.cpp

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/* Only resume if the session's version matches the negotiated
 * version. */

```

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/ssl/ssl\_session.cc

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/\* gzappend -- command to append to a gzip file

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```

```

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
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*/

```

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/zlib/zutil.c
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/* deflate.c -- compress data using the deflation algorithm
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/zlib/deflate.c
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- \* Copyright (C) 2004-2017 Mark Adler
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*/opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/poly1305/poly1305_arm.c
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1.14.1/third_party/cares/cares/bitncmp.c
*/opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/inet_net_pton.c
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_llist.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_mkquery.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_timeout.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_getenv.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_strcasecmp.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_strcasecmp.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_getenv.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_writev.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_strdup.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_parse\_ptr\_reply.c

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_strdup.h

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_search.c

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```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares__read_line.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_expand_string.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_free_hostent.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_query.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_strerror.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_parse_ns_reply.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares__close_sockets.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_parse_a_reply.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_llist.c
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_create_query.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_gethostbyaddr.c
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/ast.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/keywords.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/scripts/generator/cpp/tokenize.py
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/crypto/cipher_extra/tls_cbc.c
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/third_party/googletest/samples/sample10_unittest.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/test/gmock-1.7.0/gtest/samples/sample10_unittest.cc
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/third_party/googletest/samples/sample9_unittest.cc
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\*/opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/test/gmock-1.7.0/gtest/test/gtest\_catch\_exceptions\_test.py

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\*/opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/util/bot/go/bootstrap.py  
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* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
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*/
```

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1.14.1/third_party/boringssl/crypto/x509v3/pcy_map.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509v3/pcy_data.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509v3/pcy_tree.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/crypto/x509v3/pcy_int.h

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/\* Adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2011, 2016 Mark Adler

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/ares_parse_srv_reply.c
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/ares_parse_txt_reply.c

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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/status\_metadata.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/compression/stream\_compression\_identity.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/retry\_throttle.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/iomgr\_custom.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gprpp/inlined\_vector.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gprpp/atomic.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/fork\_posix.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_factory\_posix.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/arena.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/channel\_trace.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gprpp/ref\_counted.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_server\_utils\_posix\_ifaddrs.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gprpp/fork.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy/grpclb/grpclb\_client\_stats.cc
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/ev\_epoll1\_linux.h
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy/grpc\_lb/client\_load\_reporting\_filter.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gprpp/abstract.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy/grpc\_lb/grpc\_lb\_channel\_secure.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/flow\_control.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/compression/stream\_compression.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy/grpc\_lb/grpc\_lb\_channel.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/atm.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/channelz.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/lockfree\_event.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/src/core/lib/iomgr/tcp\_server\_utils\_posix.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gprpp/ref\_counted\_ptr.h  
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 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/proxy\_mapper.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_factory\_posix.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/status\_util.cc  
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 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/fork\_windows.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/compression/stream\_compression.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/sync\_custom.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/compression/stream\_compression\_identity.cc

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1.14.1/third_party/boringssl/crypto/ecdsa_extra/ecdsa_asn1.c
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1.14.1/third_party/boringssl/include/openssl/ecdsa.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/framework/foundation/__init__.py
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
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1.14.1/src/python/grpcio/grpc/\_cython/\_cygrpc/operation.pyx.pxi  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/\_cython/\_cygrpc/server.pyx.pxi  
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 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/framework/foundation/stream\_util.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/\_cython/\_cygrpc/grpc\_gevent.pyx.pxi  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/framework/common/cardinality.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/experimental/session\_cache.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/\_cython/\_cygrpc/metadata.pxd.pxi  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/\_plugin\_wrapping.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/beta/implementations.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/framework/foundation/stream.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/setup.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/beta/utilities.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/\_common.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/beta/\_metadata.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/\_cython/\_cygrpc/records.pxd.pxi  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/\_auth.py  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpc/beta/\_server\_adaptations.py

```

* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/support.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_cython/_cygrpc/security.pyx.pxi
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_cython/_cygrpc/arguments.pxd.pxi
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_cython/_cygrpc/credentials.pyx.pxi
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/core/lib/debug/stats_data.yaml
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_cython/_cygrpc/grpc.pxi
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_cython/_cygrpc/__init__.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/__init__.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_cython/_cygrpc/completion_queue.pxd.pxi
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_cython/_cygrpc/arguments.pyx.pxi
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_cython/_cygrpc/server.pxd.pxi
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_channel.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_cython/cygrpc.pxd
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/commands.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/_utilities.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/framework/common/style.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/framework/interfaces/base/__init__.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/experimental/gevent.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/framework/interfaces/face/utilities.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/beta/interfaces.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/framework/foundation/future.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/src/python/grpcio/grpc/framework/common/__init__.py
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/Makefile
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```

```
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```

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/include/openssl/ecdh.h
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1.14.1/third\_party/boringssl/ssl/s3\_both.cc

\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/unix\_sockets\_posix\_noop.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/lame\_client.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_ev\_driver.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/handshaker\_factory.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/endpoint\_pair\_uv.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/slice/percent\_encoding.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/error.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/propagation\_bits.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/grpc\_security\_constants.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/polling\_entity.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/http\_proxy.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_utils\_uv.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/handshaker\_factory.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/error.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/endpoint\_pair\_posix.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/jwt/jwt\_credentials.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/gpr\_types.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/channel\_init.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/plugin\_registry/grpc\_unsecure\_plugin\_registry.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/plugin\_registry/grpc\_plugin\_registry.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/slice/slice\_internal.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/combiner.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/connectivity\_state.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/google\_default/google\_default\_credentials.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy/grpclb/load\_balancer\_api.h



- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/timer\_uv.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/network\_status\_tracker.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/fake/fake\_credentials.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/grpc\_cronet.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/handshaker.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/google\_default/credentials\_generic.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/ev\_poll\_posix.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/ssl/ssl\_credentials.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/plugin\_registry/grpc\_cronet\_plugin\_registry.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gprpp/manual\_constructor.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/backoff/backoff.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/handshaker.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/http\_connect\_handshaker.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy/grpclb/load\_balancer\_api.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/channel\_init.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/plugin/plugin\_credentials.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/validate\_metadata.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/server/chttp2\_server.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/impl/codegen/gpr\_slice.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/plugin/plugin\_credentials.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/http\_proxy.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/wakeup\_fd\_cv.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/resource\_quota.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/resource\_quota.h
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/src/core/lib/iomgr/sockaddr\_utils.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/tcp\_uv.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/handshaker\_registry.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/iam/iam\_credentials.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/socket\_utils\_windows.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/slice/percent\_encoding.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/jwt/jwt\_credentials.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/transport/bin\_decoder.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/load\_reporting/server\_load\_reporting\_filter.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/error\_utils.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/mpscq.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/mpscq.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/handshaker\_registry.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/unix\_sockets\_posix.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/bdp\_estimator.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/chttp2/server/insecure/server\_chttp2\_posix.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/timer\_generic.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/error\_utils.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/cronet/client/secure/cronet\_channel\_create.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/port.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/error\_internal.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/surface/channel\_stack\_type.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/combiner.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_uv.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/include/grpc/grpc\_posix.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_uv.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/src/core/lib/channel/channel\_stack\_builder.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/channel\_stack\_builder.cc  
 1.14.1/src/core/lib/slice/slice\_intern.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/slice/slice\_intern.cc  
 1.14.1/src/core/ext/transport/http2/client/insecure/channel\_create\_posix.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/client/insecure/channel\_create\_posix.cc  
 1.14.1/src/core/ext/transport/cronet/transport/cronet\_transport.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/cronet/transport/cronet\_transport.h  
 1.14.1/src/core/lib/transport/pid\_controller.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/pid\_controller.h  
 1.14.1/src/core/ext/filters/load\_reporting/server\_load\_reporting\_filter.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/load\_reporting/server\_load\_reporting\_filter.cc  
 1.14.1/src/core/lib/transport/pid\_controller.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/pid\_controller.cc  
 1.14.1/src/core/lib/security/credentials/fake/fake\_credentials.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/fake/fake\_credentials.h  
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 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/ssl/ssl\_credentials.cc  
 1.14.1/src/core/lib/iomgr/ev\_epollsig\_linux.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/ev\_epollsig\_linux.cc  
 1.14.1/src/core/ext/transport/http2/transport/bin\_decoder.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/http2/transport/bin\_decoder.cc  
 1.14.1/src/core/lib/iomgr/pollset\_set\_custom.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/pollset\_set\_custom.cc  
 1.14.1/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_wrapper.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_wrapper.h  
 1.14.1/src/core/ext/filters/client\_channel/subchannel\_index.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/subchannel\_index.h  
 1.14.1/src/core/lib/iomgr/unix\_sockets\_posix.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/unix\_sockets\_posix.h  
 1.14.1/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_wrapper.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_wrapper.cc  
 1.14.1/src/core/lib/iomgr/wakeup\_fd\_cv.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/iomgr/wakeup\_fd\_cv.h  
 1.14.1/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_ev\_driver.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_ev\_driver.h  
 1.14.1/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_ev\_driver\_posix.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/resolver/dns/c\_ares/grpc\_ares\_ev\_driver\_posix.cc  
 1.14.1/src/core/lib/gpr/string\_util\_windows.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/string\_util\_windows.cc  
 1.14.1/src/core/ext/filters/client\_channel/parse\_address.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/parse\_address.cc  
 1.14.1/src/core/lib/channel/channel\_stack\_builder.h  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/channel/channel\_stack\_builder.h  
 1.14.1/src/core/lib/gpr/wrap\_memcpy.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/gpr/wrap\_memcpy.cc  
 1.14.1/src/core/lib/security/credentials/iam/iam\_credentials.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/iam/iam\_credentials.cc  
 \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-

1.14.1/include/grpc/impl/codegen/compression\_types.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/cronet/transport/cronet\_api\_dummy.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/security/credentials/oauth2/oauth2\_credentials.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/transport/cronet/transport/cronet\_transport.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/slice/slice\_traits.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/lb\_policy/grpclb/grpclb.cc  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/transport/bdp\_estimator.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/lib/backoff/backoff.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/core/ext/filters/client\_channel/http\_connect\_handshaker.h  
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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_library_init.h
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/cares/cares/ares_destroy.c
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- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/evp/evp\_test.cc
- \* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/cipher\_extra/cipher\_test.cc

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```
/* inflateBack9.h -- header for using inflateBack9 functions
* Copyright (C) 2003 Mark Adler
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*/
```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/zlib/contrib/inflateBack9/inflateBack9.h
```

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1.14.1/third\_party/boringssl/crypto/x509/vpm\_int.h

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 1.14.1/third\_party/boringssl/crypto/dh/params.c

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

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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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).

\*/

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/zlib/zlib.h  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_parse\_soa\_reply.c  
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\* Originally written by Shay Gueron (1, 2), and Vlad Krasnov (1)  
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\* (2) University of Haifa, Israel  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/rsaz\_exp.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/rsaz\_exp.h

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1.14.1/third\_party/boringssl/crypto/err/err.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/fipsmodule/bn/montgomery.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/include/openssl/err.h

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1.14.1/src/core/lib/slice/slice\_weak\_hash\_table.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/src/core/lib/slice/slice\_hash\_table.h

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// Inspired by Daniel J. Bernstein's public domain nistp224 implementation
// and Adam Langley's public domain 64-bit C implementation of curve25519.
```

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```

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// CRYPTO_is_confidential_build returns one if the linked version of BoringSSL
// has been built with the BORINGSSL_CONFIDENTIAL define and zero otherwise.
```

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/boringssl/include/openssl/crypto.h
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```

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* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-
1.14.1/third_party/cares/cares/setup_once.h
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Metadata-Version: 1.1

Name: grpcio

Version: 1.14.1

Summary: HTTP/2-based RPC framework

Home-page: <https://grpc.io>

Author: The gRPC Authors

Author-email: [grpc-io@googlegroups.com](mailto:grpc-io@googlegroups.com)

License: Apache License 2.0

Description: gRPC Python

=====

Package for gRPC Python.

Installation



-----  
gRPC Python is available for Linux, macOS, and Windows.

From PyPI

~~~~~

If you are installing locally...

::

```
$ pip install grpcio
```

Else system wide (on Ubuntu)...

::

```
$ sudo pip install grpcio
```

If you're on Windows make sure that you installed the `pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

```
$ pip.exe install grpcio
```

Windows users may need to invoke `pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of `pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

From Source

~~~~~

Building from source requires that you have the Python headers (usually a package named `python-dev`).

::

```
$ export REPO_ROOT=grpc # REPO_ROOT can be any directory of your choice
$ git clone -b $(curl -L https://grpc.io/release) https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init
```

```
For the next two commands do `sudo pip install` if you get permission-denied errors
```

```
$ pip install -rrequirements.txt
```

```
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting

~~~~~

Help, I ...

```
* **... see a** :code:`pkg_resources.VersionConflict` **when I try to install
grpc**
```

This is likely because :code:`pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

```
:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`
```

For example, if you get an error like the following:

```
::
```

```
Traceback (most recent call last):
```

```
File "<string>", line 17, in <module>
```

```
...
```

```
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
```

```
 raise VersionConflict(dist, req)
```

```
pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))
```

You can fix it by doing:

```
::
```

```
sudo pip install --ignore-installed six
```

```
* **... see the following error on some platforms**
```

```
::
```

```
/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
```

```
#include "Python.h"
```

```
^
```

```
compilation terminated.
```

You can fix it by installing `python-dev` package. i.e

::

```
sudo apt-get install python-dev
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: License :: OSI Approved :: Apache Software License

Found in path(s):

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/src/python/grpcio/grpcio.egg-info/PKG-INFO
```

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/PKG-INFO
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```

```
* /opt/cola/permits/1161056020_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third_party/boringssl/third_party/googletest/scripts/release_docs.py
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/modes/ofb.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/modes/ctr.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/modes/cbc.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/modes/gcm.c  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/modes/internal.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/boringssl/crypto/fipsmodule/modes/gcm\_test.cc

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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-1.14.1/third\_party/cares/cares/ares\_\_timeval.c

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/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

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\* Originally written by Shay Gueron (1, 2), and Vlad Krasnov (1)  
\* (1) Intel Corporation, Israel Development Center, Haifa, Israel  
\* (2) University of Haifa, Israel  
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\* Reference:  
\* S.Gueron and V.Krasnov, "Fast Prime Field Elliptic Curve Cryptography with  
\* 256 Bit Primes"  
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\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
1.14.1/third\_party/boringssl/crypto/fipsmodule/ec/p256-x86\_64.h  
\* /opt/cola/permits/1161056020\_1620445410.41/0/grpcio-1-14-1-1-tar-gz/grpcio-  
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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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# 1.120 dnsmasq 2.85

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# 1.125 jansson 2.11

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## 1.127 gawk 4.2.1

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Version 3, 29 June 2007

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This package is used for testing builds of ncurses.

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

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-- vile:txtmode fc=72  
-- \$Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp \$  
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# 1.129 open-ldap 2.4.57

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src/fgetln.c  
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include/bsd/sys/bitstring.h  
include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
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man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
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man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
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man/fmtcheck.3bsd  
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include/bsd/sys/endian.h  
man/byteorder.3bsd  
man/closefrom.3bsd  
man/expand\_number.3bsd  
man/flopen.3bsd  
man/getpeereid.3bsd  
man/pidfile.3bsd  
src/expand\_number.c  
src/hash/sha512.h  
src/hash/sha512c.c  
src/pidfile.c  
src/reallocf.c  
src/timeconv.c

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src/flopen.c

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man/fparsefn.3bsd

src/fparsefn.c

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man/readpassphrase.3bsd

man/strncpy.3bsd

man/strtonum.3bsd

src/arc4random.c



src/arc4random\_linux.h  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
src/getentropy\_solaris.c  
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Files:

src/inet\_net\_pton.c

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src/hash/md5.c

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src/hash/md5hl.c

src/hash/helper.c

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## 1.131 init-ifupdown 1.0-r7

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Version 3, 29 June 2007

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Version 2.1, February 1999

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```
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```
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# 1.134 protobuf 3.6.1

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\* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).  
\* Added generation of field number constants.

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\* Small patch improving performance of in Python serialization.

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\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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\* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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\* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>  
\* Detect whether zlib is new enough in configure script.  
\* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>  
\* Optimize Java serialization code when writing a small message to a stream.  
\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
\* Clean up some Java warnings.  
\* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>  
\* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>  
\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

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\* Fixed detection of sched\_yield on Solaris.  
\* Added atomicops for Solaris

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\* Fixed minor IBM xLC compiler build issues  
\* Added atomicops for AIX (POWER)

## 1.135 golang 1.7.4

## 1.135.1 Available under license :

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```
This is the official list of people who can contribute
(and typically have contributed) code to the Go repository.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
Names should be added to this file only after verifying that
the individual or the individual's organization has agreed to
the appropriate Contributor License Agreement, found here:
#
http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
```

```
Names should be added to this file like so:
Individual's name <submission email address>
Individual's name <submission email address> <email2> <emailN>
#
An entry with multiple email addresses specifies that the
```

# first address should be used in the submit logs and  
# that the other addresses should be recognized as the  
# same person when interacting with Gerrit.

# Please keep the list sorted.

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# 1.136 fdisk 2.32.1

## 1.136.1 Available under license :

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```

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```

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7zXZF!t/o."w[7gp<G

H:Oed 18uyMQ9]FO6

87I8.mhGl^eb\_X/UQKuB

)Cdk!B\_M/tw|11np#\_(~\*uM%S61opMG`YfRXvY[R+t[ BS=)d



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;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[BS=)d
;*!;_>KfBqxYm+sS|11np#_(~*uM%S61opMG`YfRXvY[R+t[BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?
*sS|11np#_(~*u7gi)[IgYZ
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## 1.137 smartmontools 7.1

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```
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Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian



Fobes, Steve  
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G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff

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Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
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Michael, David  
Miller, Todd C.  
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Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
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Nieuwma, Jeff  
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Ouellet, Jean-Philippe  
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Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
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Reid, Steve  
Richards, Matt  
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Rowe, William A., Jr.  
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The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
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Casagrande, Milo  
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Cho, Seong-ho  
Chornoivan, Yuri  
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Kazik, Duan  
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## 1.141 libmnl 1.0.4

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## 1.143 kexec-tools 2.0.9

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

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>



```
<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 </xsl:text>
</xsl:variable>
```

```
<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="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="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:  
- mode: sgml  
- End:

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# 1.149 less 530

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```
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## 1.154 e2fsprogs 1.45.6-r0

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

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

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```

#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

```

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

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell           2005
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Theodore Ts'o  
23-June-2007

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

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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# 1.158 zlib 1.2.5

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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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jloup@gzip.org      madler@alumni.caltech.edu

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## 1.159 lua 5.2.4

## 1.160 netkit-ftp 0.17

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\* from: @(#)pathnames.h 5.2 (Berkeley) 6/1/90  
 \* \$Id: pathnames.h,v 1.1 1996/07/13 23:46:07 dholland Exp \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1424598639\_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/pathnames.h  
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- \*
- \* from: @(#)ftp\_var.h 5.9 (Berkeley) 6/1/90
- \* \$Id: ftp\_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp \$
- \*/

Found in path(s):

\* /opt/cola/permits/1424598639\_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ftp\_var.h

# 1.161 findutils 4.6.0

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```

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# 1.177 grpcio-tools 1.14.1

## 1.177.1 Available under license :

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```
/*
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 */
```

Found in path(s):

```
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/support/proto_buffer_reader.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/core_codegen_interface.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/server.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/slice.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/support/async_stream.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/async_unary_call.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/rpc_service_method.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/support/status.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/grpc_library.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/security/auth_context.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc++/impl/codegen/call_hook.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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1.14.1/grpc\_root/include/grpc++/impl/channel\_argument\_option.h  
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1.14.1/grpc_root/include/grpc++/impl/codegen/status_code_enum.h
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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1.14.1/third_party/protobuf/src/google/protobuf/io/gzip_stream_unittest.sh
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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\* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/stubs/mathlimits.h

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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops_internals_generic_gcc.h
```

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```
/* "grpc_tools/_protoc_compiler.pyx":1
* # Copyright 2016 gRPC authors. # <<<<<<<<<<<<<<<<<<<<<
* #
* # Licensed under the Apache License, Version 2.0 (the "License");
*/
```

Found in path(s):

```
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/_protoc_compiler.cpp
```

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```

Found in path(s):

```
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/protobuf_generated_well_known_types_embed.cc
```

```
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
```

1.14.1/grpc\_tools/main.cc

\* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-

1.14.1/grpc\_tools/main.h

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\* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/completion\_queue.h

\* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/census.h

\* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/server\_builder.h

\* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/grpc.h

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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_enum.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/stubs/scoped\_ptr.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/generated\_enum\_reflection.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/metadata.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/reflection\_ops.cc
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/unittest\_lazy\_dependencies\_custom\_option.proto
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/javanano/javanano\_primitive\_field.cc
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/stubs/once.h
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/arena\_unittest.cc
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/implicit\_weak\_message.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_enum\_field.cc
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/java/java\_generator.h
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/javanano/javanano\_generator.cc
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_bootstrap\_unittest.cc
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/generated\_message\_reflection\_unittest.cc



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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/java/java\_field.cc
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/util/internal/constants.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/php/php\_generator.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/descriptor\_database.cc
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/unittest\_proto3\_lite.proto
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/csharp/csharp\_enum\_field.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/java/java\_enum\_field.cc
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/map\_test\_util.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/javanano/javanano\_helpers.cc
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/stubs/int128.cc
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/test\_util.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/stubs/bytestream.cc
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/zip\_writer.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/util/field\_comparator.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/io/printer\_unittest.cc
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/compiler/cpp/cpp\_string\_field.h
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/unittest\_arena.proto
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third\_party/protobuf/src/google/protobuf/io/zero\_copy\_stream\_impl\_lite.cc

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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/message_lite.h
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/util/internal/datapiece.cc
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/js/well_known_types/any.js
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/implicit_weak_message.cc
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/java/java_message.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/_proto/google/protobuf/compiler/plugin.proto
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```

```
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/protoc.py
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_version.py
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/_protoc_compiler.pyx
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/command.py
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_tools/__init__.py
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/protoc_lib_deps.py
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 */
/** Signal that the call is cacheable. GRPC is free to use GET verb */
```

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1.14.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomicops.h
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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*/
/// If set, grpc is free to use the HTTP GET verb for sending the request,
```

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Metadata-Version: 1.1

Name: grpcio-tools

Version: 1.14.1

Summary: Protobuf code generator for gRPC

Home-page: <https://grpc.io>

Author: The gRPC Authors

Author-email: [grpc-io@googlegroups.com](mailto:grpc-io@googlegroups.com)

License: Apache License 2.0

Description: UNKNOWN

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/rpc\_method.h
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/stream.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/support/async\_unary\_call.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/support/alloc.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/metadata\_map.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/compression.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/src/compiler/csharp\_plugin.cc
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/async\_unary\_call.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/server\_interface.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/core\_codegen\_interface.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/src/compiler/protobuf\_plugin.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/impl/codegen/atm.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/grpc\_library.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/time.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/impl/codegen/atm\_gcc\_atomic.h
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 \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/create\_auth\_context.h  
 \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/security/credentials.h  
 \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/security/auth\_metadata\_processor.h  
 \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/src/compiler/python\_plugin.cc  
 \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-

```
1.14.1/grpc_root/include/grpc/impl/codegen/sync_generic.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
1.14.1/grpc_root/include/grpc/impl/codegen/sync_posix.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
1.14.1/grpc_root/include/grpcpp/impl/codegen/stub_options.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
1.14.1/grpc_root/src/compiler/generator_helpers.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
1.14.1/grpc_root/include/grpc/support/sync_posix.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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1.14.1/third_party/protobuf/src/google/protobuf/testing/zcgzip.cc
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-
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- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/server\_initializer.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/resource\_quota.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/grpc\_library.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/impl/codegen/sync.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/config.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/impl/codegen/connectivity\_state.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/grpc\_posix.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/status.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/src/compiler/node\_generator\_helpers.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/impl/codegen/compression\_types.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/create\_channel\_posix.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/src/compiler/php\_generator\_helpers.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/grpc\_cronet.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/server\_posix.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/codegen/status\_code\_enum.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/health\_check\_service\_interface.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/test/server\_context\_test\_spouse.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpcpp/impl/rpc\_service\_method.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/impl/codegen/propagation\_bits.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/include/grpc/impl/codegen/gpr\_slice.h
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/src/compiler/php\_generator.cc
- \* /opt/cola/permits/1168659419\_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc\_root/src/compiler/node\_generator.cc

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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/php_generator.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/rpc_service_method.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/src/compiler/node_generator.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/grpc_security_constants.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/server_builder_plugin.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/ext/health_check_service_server_builder_option.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/channel_interface.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpc/impl/codegen/gpr_types.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/grpc_root/include/grpcpp/impl/codegen/core_codegen.h
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/map_util.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/fastmem.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/shared_ptr.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/atomic_sequence_num.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/stubs/casts.h
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
```

```
* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
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* /opt/cola/permits/1168659419_1622048081.6/0/grpcio-tools-1-14-1-1-tar-gz/grpcio-tools-1.14.1/third_party/protobuf/src/google/protobuf/compiler/javanano/javanano_params.h
```

# 1.178 python-requests 2.25.1

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## 1.179 python-mimeparse 1.6.0

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## 1.180 mdadm 4.0-r0

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# 1.181 cracklib 2.9.5

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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

>> clarification of the licensing that was already in place.

>=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

> 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: (gmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]

Return-Path: alecm@crypticide.com

X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]

Status: RO

Content-Length: 585

Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk

>

> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that

> email

> in the repository and clean up the repository/tarballs? I have all the

> original discussion, but something succinct and self contained

> would be

> ideal.

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

Happy now? :-)

-a

# 1.182 bind 9.11.37

## 1.182.1 Available under license :

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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 additional mechanism for implementations to verify this is to verify the new symbols are protected by Feature Test Macros as described in IEEE Std 1003.1. (Such Feature Test Macros are not defined by this RFC.)
- The changes to the API should be as small as possible in order to simplify the task of converting existing IPv4 applications to IPv6.

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

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

## 2.1 What Needs to be Changed

The socket interface API consists of a few distinct components:

- Core socket functions.

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

The core socket functions -- those functions that deal with such things as setting up and tearing down TCP connections, and sending and receiving UDP packets -- were designed to be transport independent. Where protocol addresses are passed as function arguments, they are carried via opaque pointers. A protocol-specific address data structure is defined for each protocol that the socket functions support. Applications must cast pointers to these protocol-specific address structures into pointers to the generic "sockaddr" address structure when using the socket functions. These functions need not change for IPv6, but a new IPv6-specific address data structure is needed.

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

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

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

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

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

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



## 2.2 Data Types

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

## 2.3 Headers

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

## 2.4 Structures

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

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

## 3. Socket Interface

This section specifies the socket interface changes for IPv6.

### 3.1 IPv6 Address Family and Protocol Family

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

A new protocol family name, PF\_INET6, is defined in <sys/socket.h>. Like most of the other protocol family names, this will usually be defined to have the same value as the corresponding address family name:

```
#define PF_INET6 AF_INET6
```

The PF\_INET6 is used in the first argument to the socket() function to indicate that an IPv6 socket is being created.

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### 3.2 IPv6 Address Structure

A new in6\_addr structure holds a single IPv6 address and is defined as a result of including <netinet/in.h>:

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

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

The structure in6\_addr above is usually implemented with an embedded union with extra fields that force the desired alignment level in a manner similar to BSD implementations of "struct in\_addr". Those additional implementation details are omitted here for simplicity.

An example is as follows:

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

### 3.3 Socket Address Structure for 4.3BSD-Based Systems

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

The sockaddr\_in structure is the protocol-specific address data structure for IPv4. It is used to pass addresses between applications and the system in the socket functions. The following sockaddr\_in6 structure holds IPv6 addresses and is defined as a result of including the <netinet/in.h> header:

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

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

The sin6\_family field identifies this as a sockaddr\_in6 structure. This

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field overlays the sa\_family field when the buffer is cast to a sockaddr data structure. The value of this field must be AF\_INET6.

The sin6\_port field contains the 16-bit UDP or TCP port number. This field is used in the same way as the sin\_port field of the sockaddr\_in structure. The port number is stored in network byte order.

The sin6\_flowinfo field is a 32-bit field that contains two pieces of information: the traffic class and the flow label. The contents and interpretation of this member is specified in [1]. The sin6\_flowinfo field SHOULD be set to zero by an implementation prior to using the

sockaddr\_in6 structure by an application on receive operations.

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

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

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

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

### 3.4 Socket Address Structure for 4.4BSD-Based Systems

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

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

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The only differences between this data structure and the 4.3BSD variant are the inclusion of the length field, and the change of the family field to a 8-bit data type. The definitions of all the other fields are identical to the structure defined in the previous section.

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

### 3.5 The Socket Functions

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

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

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

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

Applications may create IPv6/TCP and IPv6/UDP sockets by simply using the constant `PF_INET6` instead of `PF_INET` in the first argument. For example, to create an IPv6/TCP socket, applications make the call:

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

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

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

Once the application has created a `PF_INET6` socket, it must use the `sockaddr_in6` address structure when passing addresses in to the system. The functions that the application uses to pass addresses into the system are:

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

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

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

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

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IPv6, since all of the "address carrying" functions use an opaque address pointer, and carry an address length as a function argument.

### 3.6 Compatibility with IPv4 Applications

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

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

### 3.7 Compatibility with IPv4 Nodes

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

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

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

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

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

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### 3.8 IPv6 Wildcard Address

While the `bind()` function allows applications to select the source IP address of UDP packets and TCP connections, applications often want the system to select the source address for them. With IPv4, one specifies

the address as the symbolic constant `INADDR_ANY` (called the "wildcard" address) in the `bind()` call, or simply omits the `bind()` entirely.

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

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

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

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

```
struct sockaddr_in6 sin6;
...
sin6.sin6_family = AF_INET6;
sin6.sin6_flowinfo = 0;
sin6.sin6_port = htons(23);
sin6.sin6_addr = in6addr_any; /* structure assignment */
...
if (bind(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
 ...
```

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

```
struct in6_addr anyaddr = IN6ADDR_ANY_INIT;
```

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

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

Be aware that the IPv4 `INADDR_XXX` constants are all defined in host byte order but the IPv6 `IN6ADDR_XXX` constants and the IPv6 `in6addr_XXX` externals are defined in network byte order.



### 3.9 IPv6 Loopback Address

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

IPv6 also provides a loopback address to contact local TCP and UDP services. Like the unspecified address, the IPv6 loopback address is provided in two forms -- a global variable and a symbolic constant.

The global variable is an `in6_addr` structure named "in6addr\_loopback." The extern declaration for this variable is defined in `<netinet/in.h>`:

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

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

```
struct sockaddr_in6 sin6;
...
sin6.sin6_family = AF_INET6;
sin6.sin6_flowinfo = 0;
sin6.sin6_port = htons(23);
sin6.sin6_addr = in6addr_loopback; /* structure assignment */
...
if (connect(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
 ...
```

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

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

Like IN6ADDR\_ANY\_INIT, this constant cannot be used in an assignment to a previously declared IPv6 address variable.

### 3.10 Portability Additions

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

- It has a large enough implementation specific maximum size to store the desired set of protocol specific socket address data structures. Specifically, it is at least large enough to accommodate sockaddr\_in and sockaddr\_in6 and possibly other protocol specific socket addresses too.
- It is aligned at an appropriate boundary so protocol specific socket address data structure pointers can be cast to it and access their fields without alignment problems. (e.g. pointers to sockaddr\_in6 and/or sockaddr\_in can be cast to it and access fields without alignment

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problems).

- It has the initial field(s) isomorphic to the fields of the "struct sockaddr" data structure on that implementation which can be used as a discriminants for deriving the protocol in use. These initial field(s) would on most implementations either be a single field of type "sa\_family\_t" (isomorphic to sa\_family field, 16 bits) or two fields of type uint8\_t and sa\_family\_t respectively, (isomorphic to sa\_len and sa\_family\_t, 8 bits each).

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

```
/*
 * Desired design of maximum size and alignment
 */
#define _SS_MAXSIZE 128 /* Implementation specific max size */
#define _SS_ALIGNSIZE (sizeof (int64_t))
```

```

 /* Implementation specific desired alignment */
/*
* Definitions used for sockaddr_storage structure paddings design.
*/
#define _SS_PAD1SIZE (_SS_ALIGNSIZE - sizeof (sa_family_t))
#define _SS_PAD2SIZE (_SS_MAXSIZE - (sizeof (sa_family_t)+
 _SS_PAD1SIZE + _SS_ALIGNSIZE))
struct sockaddr_storage {
 sa_family_t __ss_family; /* address family */
 /* Following fields are implementation specific */
 char __ss_pad1[_SS_PAD1SIZE];
 /* 6 byte pad, this is to make implementation
 /* specific pad up to alignment field that */
 /* follows explicit in the data structure */
 int64_t __ss_align; /* field to force desired structure */
 /* storage alignment */
 char __ss_pad2[_SS_PAD2SIZE];
 /* 112 byte pad to achieve desired size, */
 /* _SS_MAXSIZE value minus size of ss_family */
 /* __ss_pad1, __ss_align fields is 112 */
};

```

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

```

/*
* Definitions used for sockaddr_storage structure paddings design.
*/
#define _SS_PAD1SIZE (_SS_ALIGNSIZE -
 (sizeof (uint8_t) + sizeof (sa_family_t))
#define _SS_PAD2SIZE (_SS_MAXSIZE - (sizeof (sa_family_t)+
 _SS_PAD1SIZE + _SS_ALIGNSIZE))
struct sockaddr_storage {
 uint8_t __ss_len; /* address length */
 sa_family_t __ss_family; /* address family */
 /* Following fields are implementation specific */
 char __ss_pad1[_SS_PAD1SIZE];
 /* 6 byte pad, this is to make implementation
 /* specific pad up to alignment field that */
 /* follows explicit in the data structure */
 int64_t __ss_align; /* field to force desired structure */

```

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```

 /* storage alignment */
char __ss_pad2[_SS_PAD2SIZE];
 /* 112 byte pad to achieve desired size, */
 /* _SS_MAXSIZE value minus size of ss_len, */
 /* __ss_family, __ss_pad1, __ss_align fields is 112 */
};

```

The above example implementation illustrates a data structure which will align on a 64 bit boundary. An implementation specific field "`__ss_align`" along "`__ss_pad1`" is used to force a 64-bit alignment which covers proper alignment good enough for needs of `sockaddr_in6` (IPv6), `sockaddr_in` (IPv4) address data structures. The size of padding fields `__ss_pad1` depends on the chosen alignment boundary. The size of padding field `__ss_pad2` depends on the value of overall size chosen for the total size of the structure. This size and alignment are represented in the above example by implementation specific (not required) constants `_SS_MAXSIZE` (chosen value 128) and `_SS_ALIGNMENT` (with chosen value 8). Constants `_SS_PAD1SIZE` (derived value 6) and `_SS_PAD2SIZE` (derived value 112) are also for illustration and not required. The implementation specific definitions and structure field names above start with an underscore to denote implementation private namespace. Portable code is not expected to access or reference those fields or constants.

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

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

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

So now an application can do the following:

```

struct sockaddr_storage __ss;

```

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

#### 4. Interface Identification

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

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the interface on which a datagram is to be sent.

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

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

##### 4.1 Name-to-Index

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

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

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

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

#### 4.2 Index-to-Name

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

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

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

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

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#### 4.3 Return All Interface Names and Indexes

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

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

The final function returns an array of `if_nameindex` structures, one

structure per interface.

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

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

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

#### 4.4 Free Memory

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

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

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

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

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

#### 5. Socket Options

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

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

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## 5.1 Unicast Hop Limit

A new `setsockopt()` option controls the hop limit used in outgoing unicast IPv6 packets. The name of this option is `IPV6_UNICAST_HOPS`, and it is used at the `IPPROTO_IPV6` layer. The following example illustrates how it is used:

```
int hoplimit = 10;

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

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

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

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

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

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

## 5.2 Sending and Receiving Multicast Packets



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

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

#### IPV6\_MULTICAST\_IF

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

Argument type: unsigned int

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#### IPV6\_MULTICAST\_HOPS

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

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

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

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

Argument type: int

#### IPV6\_MULTICAST\_LOOP

If a multicast datagram is sent to a group to which the sending host

itself belongs (on the outgoing interface), a copy of the datagram is looped back by the IP layer for local delivery if this option is set to 1. If this option is set to 0 a copy is not looped back. Other option values return an error of EINVAL.

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

Argument type: unsigned int

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

#### `IPV6_JOIN_GROUP`

Join a multicast group on a specified local interface.

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

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

Argument type: struct `ipv6_mreq`

#### `IPV6_LEAVE_GROUP`

Leave a multicast group on a specified interface.

Argument type: struct `ipv6_mreq`

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

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

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

Note that to receive multicast datagrams a process must join the multicast group and bind the UDP port to which datagrams will be sent.

Some processes also bind the multicast group address to the socket, in addition to the port, to prevent other datagrams destined to that same port from being delivered to the socket.

## 6. Library Functions

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

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

### 6.1 Nodename-to-Address Translation

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

The following function is new and must be thread safe:

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

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

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

## HOST\_NOT\_FOUND

No such host is known.

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## NO\_ADDRESS

The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

## NO\_RECOVERY

An unexpected server failure occurred which cannot be recovered.

## TRY\_AGAIN

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

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

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

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

with

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

and changes any subsequent error diagnosis code to use error\_num instead of externally declared variables, such as h\_errno.

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

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

- If flags is 0 and af is AF\_INET, then the caller wants only IPv4 addresses. A query is made for A records. If successful, the IPv4 addresses are returned and the h\_length member of the hostent structure will be 4, else the function returns a NULL pointer.
- If flags is 0 and if af is AF\_INET6, then the caller wants only IPv6 addresses. A query is made for AAAA records. If successful, the IPv6 addresses are returned and the h\_length member of the hostent structure will be 16, else the function returns a NULL pointer.

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

- If the AI\_V4MAPPED flag is specified along with an af of AF\_INET6, then the caller will accept IPv4-mapped IPv6 addresses. That is, if no AAAA records are found then a query is made for A records and any found are returned as IPv4-mapped IPv6 addresses (h\_length will be 16). The AI\_V4MAPPED flag is ignored unless af equals AF\_INET6.

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- The AI\_ALL flag is used in conjunction with the AI\_V4MAPPED flag, and is only used with the IPv6 address family. When AI\_ALL is logically or'd with AI\_V4MAPPED flag then the caller wants all addresses: IPv6 and IPv4-mapped IPv6. A query is first made for AAAA records and if successful, the IPv6 addresses are returned. Another query is then made for A records and any found are returned as IPv4-mapped IPv6 addresses. h\_length will be 16. Only if both queries fail does the function return a NULL pointer. This flag is ignored unless af equals AF\_INET6.
- The AI\_ADDRCONFIG flag specifies that a query for AAAA records should occur only if the node has at least one IPv6 source address configured and a query for A records should occur only if the node has at least one IPv4 source address configured.

For example, if the node has no IPv6 source addresses configured, and af equals AF\_INET6, and the node name being looked up has both

AAAA and A records, then:

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

The special flags value of `AI_DEFAULT` is defined as

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

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

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

The two simple cases are:

When name is a dotted-decimal IPv4 address and `af` equals `AF_INET`, or when name is an IPv6 hex address and `af` equals `AF_INET6`. The members of the returned `hostent` structure are: `h_name` points to a copy of the name argument, `h_aliases` is a `NULL` pointer, `h_addrtype` is a copy of the `af` argument, `h_length` is either 4 (for `AF_INET`) or 16 (for `AF_INET6`), `h_addr_list[0]` is a pointer to the 4-byte or 16-byte binary address, and `h_addr_list[1]` is a `NULL` pointer.

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

It is an error when name is an IPv6 hex address and `af` equals `AF_INET`. The function's return value is a `NULL` pointer and `error_num` equals `HOST_NOT_FOUND`.

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## 6.2 Address-To-Nodename Translation

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

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

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

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

### HOST\_NOT\_FOUND

No such host is known.

### NO\_ADDRESS

The server recognized the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

### NO\_RECOVERY

An unexpected server failure occurred which cannot be recovered.

### TRY\_AGAIN

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

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

1. If `af` is `AF_INET6`, and if `len` equals 16, and if the IPv6 address is an IPv4-mapped IPv6 address or an IPv4-compatible IPv6 address, then skip over the first 12 bytes of the IPv6 address, set `af` to `AF_INET`, and set `len` to 4.
2. If `af` is `AF_INET`, lookup the name for the given IPv4 address (e.g., query for a PTR record in the `in-addr.arpa` domain).

3. If af is AF\_INET6, lookup the name for the given IPv6 address (e.g., query for a PTR record in the ip6.int domain).
4. If the function is returning success, then the single address that is returned in the hostent structure is a copy of the first argument to the function with the same address family that was passed as an argument to this function.

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

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addresses, and if the address is "::", HOST\_NOT\_FOUND MUST be returned and a query of the address not performed.

Also for the macro in section 6.7 IN6\_IS\_ADDR\_V4COMPAT MUST return false for "::" and "::1".

### 6.3 Freeing memory for getipnodebyname and getipnodebyaddr

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

```
#include <netdb.h>

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

### 6.4 Protocol-Independent Nodename and Service Name Translation

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

The official specification for this function will be the final POSIX



standard, with the following additional requirements:

- getaddrinfo() (along with the getnameinfo() function described in the next section) must be thread safe.
- The AI\_NUMERICHOST is new with this document.
- All fields in socket address structures returned by getaddrinfo() that are not filled in through an explicit argument (e.g., sin6\_flowinfo and sin\_zero) must be set to 0. (This makes it easier to compare socket address structures.)
- getaddrinfo() must fill in the length field of a socket address structure (e.g., sin6\_len) on systems that support this field.

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

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

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

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

```
struct addrinfo {
```

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```
int ai_flags; /* AI_PASSIVE, AI_CANONNAME, AI_NUMERICHOST */
int ai_family; /* PF_XXX */
int ai_socktype; /* SOCK_XXX */
int ai_protocol; /* 0 or IPPROTO_XXX for IPv4 and IPv6 */
size_t ai_addrlen; /* length of ai_addr */
char *ai_canonname; /* canonical name for nodename */
struct sockaddr *ai_addr; /* binary address */
struct addrinfo *ai_next; /* next structure in linked list */
};
```

The return value from the function is 0 upon success or a nonzero error

code. The following names are the nonzero error codes from `getaddrinfo()`, and are defined in `<netdb.h>`:

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

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

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

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

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

If the `AI_PASSIVE` bit is set in the `ai_flags` member of the hints structure, then the caller plans to use the returned socket address structure in a call to `bind()`. In this case, if the `nodename` argument is a `NULL` pointer, then the IP address portion of the socket address structure will be set to `INADDR_ANY` for an IPv4 address or `IN6ADDR_ANY_INIT` for an IPv6 address.

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

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

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

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

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

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

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

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

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

char *gai_strerror(int ecode);
```

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

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## 6.5 Socket Address Structure to Nodename and Service Name

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

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

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

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

The first argument, `sa`, points to either a `sockaddr_in` structure (for IPv4) or a `sockaddr_in6` structure (for IPv6) that holds the IP address

and port number. The salen argument gives the length of the sockaddr\_in or sockaddr\_in6 structure.

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

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

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

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

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

If the flag bit NI\_NUMERICHOST is set, or if the host's name cannot be located in the DNS, the numeric form of the host's address is returned instead of its name (e.g., by calling inet\_ntop() instead of getipnodebyaddr()). If the flag bit NI\_NAMEREQD is set, an error is

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

If the flag bit NI\_NUMERICSERV is set, the numeric form of the service address is returned (e.g., its port number) instead of its name. The two NI\_NUMERICxxx flags are required to support the "-n" flag that many

commands provide.

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

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

## 6.6 Address Conversion Functions

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

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

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

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

The `inet_pton()` function converts an address in its standard text presentation form into its numeric binary form. The `af` argument specifies the family of the address. Currently the `AF_INET` and `AF_INET6` address families are supported. The `src` argument points to the string being passed in. The `dst` argument points to a buffer into which the function stores the numeric address. The address is returned in network byte order. `inet_pton()` returns 1 if the conversion succeeds, 0 if the input is not a valid IPv4 dotted-decimal string or a valid IPv6 address string, or -1 with `errno` set to `EAFNOSUPPORT` if the `af` argument is unknown. The calling application must ensure that the buffer referred to by `dst` is large enough to hold the numeric address (e.g., 4 bytes for `AF_INET` or 16 bytes for `AF_INET6`).

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

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

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

accept these formats.

If the af argument is AF\_INET6, then the function accepts a string in one of the standard IPv6 text forms defined in Section 2.2 of the addressing architecture specification [2].

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The inet\_ntop() function converts a numeric address into a text string suitable for presentation. The af argument specifies the family of the address. This can be AF\_INET or AF\_INET6. The src argument points to a buffer holding an IPv4 address if the af argument is AF\_INET, or an IPv6 address if the af argument is AF\_INET6, the address must be in network byte order. The dst argument points to a buffer where the function will store the resulting text string. The size argument specifies the size of this buffer. The application must specify a non-NULL dst argument. For IPv6 addresses, the buffer must be at least 46-octets. For IPv4 addresses, the buffer must be at least 16-octets. In order to allow applications to easily declare buffers of the proper size to store IPv4 and IPv6 addresses in string form, the following two constants are defined in <netinet/in.h>:

```
#define INET_ADDRSTRLEN 16
#define INET6_ADDRSTRLEN 46
```

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

## 6.7 Address Testing Macros

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

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

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

```

int IN6_IS_ADDR_V4MAPPED (const struct in6_addr *);
int IN6_IS_ADDR_V4COMPAT (const struct in6_addr *);

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

```

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

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## 7. Summary of New Definitions

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

```

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

<netdb.h> AI_ADDRCONFIG
<netdb.h> AI_DEFAULT
<netdb.h> AI_ALL
<netdb.h> AI_CANONNAME
<netdb.h> AI_NUMERICHOST
<netdb.h> AI_PASSIVE
<netdb.h> AI_V4MAPPED
<netdb.h> EAI_ADDRFAMILY
<netdb.h> EAI_AGAIN

```



```

<netdb.h> EAI_BADFLAGS
<netdb.h> EAI_FAIL
<netdb.h> EAI_FAMILY
<netdb.h> EAI_MEMORY
<netdb.h> EAI_NODATA
<netdb.h> EAI_NONAME
<netdb.h> EAI_SERVICE
<netdb.h> EAI_SOCKTYPE
<netdb.h> EAI_SYSTEM
<netdb.h> NI_DGRAM
<netdb.h> NI_MAXHOST
<netdb.h> NI_MAXSERV
<netdb.h> NI_NAMEREQD
<netdb.h> NI_NOFQDN
<netdb.h> NI_NUMERICHOST
<netdb.h> NI_NUMERICSERV
<netdb.h> struct addrinfo{ };

<netinet/in.h> IN6ADDR_ANY_INIT
<netinet/in.h> IN6ADDR_LOOPBACK_INIT
<netinet/in.h> INET6_ADDRSTRLEN
<netinet/in.h> INET_ADDRSTRLEN
<netinet/in.h> IPPROTO_IPV6
<netinet/in.h> IPV6_JOIN_GROUP
<netinet/in.h> IPV6_LEAVE_GROUP
<netinet/in.h> IPV6_MULTICAST_HOPS
<netinet/in.h> IPV6_MULTICAST_IF
<netinet/in.h> IPV6_MULTICAST_LOOP
<netinet/in.h> IPV6_UNICAST_HOPS
<netinet/in.h> SIN6_LEN
<netinet/in.h> extern const struct in6_addr in6addr_any;
<netinet/in.h> extern const struct in6_addr in6addr_loopback;
<netinet/in.h> struct in6_addr{ };
<netinet/in.h> struct ipv6_mreq{ };
<netinet/in.h> struct sockaddr_in6{ };

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

```

The following list summarizes the function and macro prototypes

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discussed in this memo, sorted by header.

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

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

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

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

## 8. Security Considerations

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

## 9. Year 2000 Considerations

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

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### Changes From RFC 2133

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

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

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

Section 3.10 ("Portability Additions") is new.

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

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

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

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

Section 7: added the following constants to the list for <netdb.h>:  
AI\_ADDRCONFIG, AI\_ALL, and AI\_V4MAPPED. Add union sockaddr\_union and  
SA\_LEN to the lists for <sys/socket.h>.

Updated references.

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

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

Section 3.2: data type of s6\_addr changed to "uint8\_t".

Section 3.3: data type of sin6\_family changed to "sa\_family\_t". data  
type of sin6\_port changed to "in\_port\_t", data type of sin6\_flowinfo  
changed to "uint32\_t".

Section 3.4: same as Section 3.3, plus data type of sin6\_len changed  
to "uint8\_t".

Section 6.2: first argument of gethostbyaddr() changed from "const  
char \*" to "const void \*" and second argument changed from "int" to  
"size\_t".

Section 6.4: second argument of getnameinfo() changed from "size\_t"  
to "socklen\_t".

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

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Section 3.2 (in6\_addr{}), Section 3.3 (sockaddr\_in6{}), Section 3.4  
(sockaddr\_in6{}), Section 4.3 (if\_nameindex{}), Section 5.3  
(ipv6\_mreq{}), and Section 6.3 (addrinfo{}).

Section 4: NET\_RT\_LIST changed to NET\_RT\_IFLIST.

Section 5.1: The IPV6\_ADDRFORM socket option was removed.

Section 5.3: Added a note that an option value other than 0 or 1 for  
IPV6\_MULTICAST\_LOOP returns an error. Added a note that  
IPV6\_MULTICAST\_IF, IPV6\_MULTICAST\_HOPS, and IPV6\_MULTICAST\_LOOP can

also be used with `getsockopt()`, but `IPV6_ADD_MEMBERSHIP` and `IPV6_DROP_MEMBERSHIP` cannot be used with `getsockopt()`.

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

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

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

Section 6.6: Added clarification about `IN6_IS_ADDR_LINKLOCAL` and `IN6_IS_ADDR_SITELOCAL` macros.

Changes made to the draft -01 specification Sept 98

Changed priority to traffic class in the spec.

Added the need for scope identification in section 2.1.

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

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

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

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

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

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

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

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

Added Year 2000 Section to the draft

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

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

Deleted the following reference as it is no longer referenced. And the draft has expired.

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

Deleted the following reference as it is no longer referenced.

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

Update current references to current status.

Added alignment notes for in6\_addr and sin6\_addr.

Clarified further that AI\_V4MAPPED must be used with a dotted IPv4 literal address for getipnodebyname(), when address family is AF\_INET6.

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

#### Acknowledgments

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Sklower, Matt Thomas, Harvey Thompson, Dean D. Throop, Karen Tracey, Glenn Trewitt, Paul Vixie, David Waitzman, Carl Williams, and Kazu Yamamoto,

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

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

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

## References

- [1] S. Deering, R. Hinden, "Internet Protocol, Version 6 (IPv6) Specification", RFC 2460 Draft Standard.
- [2] R. Hinden, S. Deering, "IP Version 6 Addressing Architecture", RFC 2373, July 1998 Draft Standard.
- [3] IEEE, "Protocol Independent Interfaces", IEEE Std 1003.1g, DRAFT 6.6, March 1997.
- [4] W. Stevens, M. Thomas, "Advanced Sockets API for IPv6", RFC 2292, February 1998.

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```
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./bin/check/named-checkconf.8 MAN DOCBOOK
./bin/check/named-checkconf.c C
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 ./bin/tests/pkcs11/benchmarks/sign.c C 2014,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/pkcs11/benchmarks/verify.c C 2014,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/pkcs11/pkcs11-hmacmd5.c C 2014,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/pkcs11/pkcs11-md5sum.c C 2014,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/prepare-softhsm2.sh X 2018,2019,2020,2021,2022  
 ./bin/tests/startperf/README X 2011,2018,2019,2020,2021,2022  
 ./bin/tests/startperf/clean.sh SH 2011,2012,2016,2018,2019,2020,2021,2022  
 ./bin/tests/startperf/makenames.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022  
 ./bin/tests/startperf/mkzonefile.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022  
 ./bin/tests/startperf/setup.sh SH 2011,2012,2016,2018,2019,2020,2021,2022  
 ./bin/tests/startperf/smallzone.db ZONE 2011,2016,2018,2019,2020,2021,2022

./bin/tests/system/Makefile.in MAKE  
2000,2001,2004,2007,2008,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/README TXT.BRIEF 2000,2001,2004,2010,2011,2013,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/acl/clean.sh SH 2008,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns2/named3.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns2/named4.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns2/named5.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns2/named6.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns2/named7.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns3/example.db ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns4/example.db ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns4/existing.db ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/acl/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/acl/setup.sh SH 2008,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/acl/tests.sh SH 2008,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/additional/clean.sh SH 2013,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/mx.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/named.args X 2013,2014,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/named3.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/named4.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/naptr.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/naptr2.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/nid.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/root.db ZONE 2019,2020,2021,2022  
./bin/tests/system/additional/ns1/rt.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/rt2.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns1/srv.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/additional/ns3/root.hint ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/additional/setup.sh SH 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/additional/tests.sh SH 2013,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/clean.sh SH 2010,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns1/inlineslave.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns2/added.db ZONE 2010,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns2/default.nzf.in X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns2/hints.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns2/inline.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns2/normal.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns2/previous.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns2/redirect.db ZONE 2016,2018,2019,2020,2021,2022

./bin/tests/system/addzone/ns3/e.db ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/addzone/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/addzone/setup.sh SH 2010,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/addzone/tests.sh SH 2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/clean.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns1/root.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/generic.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named01.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named02.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named03.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named04.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named05.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named06.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named07.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named08.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named09.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named10.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named11.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named12.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named21.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named22.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named23.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named24.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named25.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named26.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named27.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named28.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named29.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named30.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named31.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named32.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named33.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named34.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named40.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named53.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named54.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named55.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named56.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns2/named57.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns3/named.args X 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/allow-query/tests.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/ans.pl PERL 2011,2012,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/auth/clean.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/auth/ns1/chaos.db ZONE 2018,2019,2020,2021,2022

./bin/tests/system/auth/ns1/example.com.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/auth/ns1/example.net.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/auth/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/auth/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/auth/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/auth/tests.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/clean.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns1/keygen.sh SH 2009,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns1/root.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/Xbar.+005+30676.key X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/Xbar.+005+30676.private X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/Xbar.+005+30804.key X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/Xbar.+005+30804.private X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns2/bar.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./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  
./bin/tests/system/autosign/ns3/inacksk3.example.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/inaczsk.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/inaczsk2.example.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/inaczsk3.example.db.in ZONE 2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/insecure.example.db ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/jitter.nsec3.example.db.in ZONE 2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/keygen.sh SH  
2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/nozsk.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/nsec.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/nsec3-to-nsec.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/nsec3.nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/nsec3.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/oldsigs.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/optout.nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/optout.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022



./bin/tests/system/autosign/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/secure-to-insecure.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/secure-to-insecure2.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/secure.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/secure.nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/secure.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/sync.example.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/ttl1.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/ttl2.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/ttl3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns3/ttl4.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/autosign/prereq.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/setup.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/autosign/tests.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/builtin/clean.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/builtin/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/builtin/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/builtin/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/builtin/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/builtin/tests.sh SH 2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/dig.batch X 2001,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/knowngood.dig.out X 2001,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/ns1/example.db ZONE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/ns1/expire-test.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/ns1/flush-test.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/cachecclean/tests.sh SH 2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/case/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/case/dynamic.good X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/case/ns1/dynamic.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/case/ns1/example.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/case/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/case/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/case/postns1.good X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/case/postupdate.good X 2015,2018,2019,2020,2021,2022  
./bin/tests/system/case/setup.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/case/tests.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/catz/clean.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/catz/ns1/catalog.example.db.in ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/catz/ns1/named.conf.in CONF-C 2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/catz/ns2/named.conf.in CONF-C 2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/catz/ns3/dom5.example.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/catz/ns3/dom6.example.db ZONE 2016,2018,2019,2020,2021,2022

`./bin/tests/system/catz/ns3/named.conf.in` CONF-C 2016,2018,2019,2020,2021,2022  
`./bin/tests/system/catz/setup.sh` SH 2016,2018,2019,2020,2021,2022  
`./bin/tests/system/catz/tests.sh` SH 2016,2017,2018,2019,2020,2021,2022  
`./bin/tests/system/chain/README` TXT.BRIEF 2017,2018,2019,2020,2021,2022  
`./bin/tests/system/chain/ans3/ans.pl` PERL 2017,2018,2019,2020,2021,2022  
`./bin/tests/system/chain/ans4/README.anspy` TXT.BRIEF 2017,2018,2019,2020,2021,2022  
`./bin/tests/system/chain/ans4/ans.py` PYTHON 2017,2018,2019,2020,2021,2022  
`./bin/tests/system/chain/clean.sh` SH 2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022  
`./bin/tests/system/chain/ns1/named.conf.in` CONF-C 2018,2019,2020,2021,2022  
`./bin/tests/system/chain/ns1/root.db` ZONE 2011,2016,2017,2018,2019,2020,2021,2022  
`./bin/tests/system/chain/ns2/example.db` ZONE 2011,2016,2017,2018,2019,2020,2021,2022  
`./bin/tests/system/chain/ns2/generic.db` ZONE 2017,2018,2019,2020,2021,2022  
`./bin/tests/system/chain/ns2/named.conf.in` CONF-C 2018,2019,2020,2021,2022  
`./bin/tests/system/chain/ns2/sign.sh` SH 2017,2018,2019,2020,2021,2022  
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`./bin/tests/system/chain/ns5/named.conf.in` CONF-C 2018,2019,2020,2021,2022  
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`./bin/tests/system/chain/ns7/named.conf.in` CONF-C 2018,2019,2020,2021,2022  
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 ./bin/tests/system/checkds/none.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022  
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./bin/tests/system/checkzone/zones/spf.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkzone/zones/test1.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkzone/zones/test2.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkzone/zones/warn.inherit.origin.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/checkzone/zones/warn.inherited.owner.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cleanall.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cleanpkcs11.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/common/controls.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/common/controls.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/common/rndc.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/common/rndc.key CONF-C 2011,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/common/root.hint ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/conf.sh.in SH  
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/conf.sh.win32 SH 2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ans9/ans.py PYTHON 2020,2021,2022  
./bin/tests/system/cookie/bad-cookie-badaes.conf.in X 2019,2020,2021,2022  
./bin/tests/system/cookie/bad-cookie-badhex.conf CONF-C 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/bad-cookie-badsha1.conf CONF-C 2017,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/bad-cookie-badsha256.conf CONF-C 2017,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/bad-cookie-badsiphash24.conf X 2019,2020,2021,2022  
./bin/tests/system/cookie/bad-cookie-toolong.conf CONF-C 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/good-cookie-aes.conf.in X 2019,2020,2021,2022  
./bin/tests/system/cookie/good-cookie-sha1.conf CONF-C 2017,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/good-cookie-sha256.conf CONF-C 2017,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/good-cookie-siphash24.conf X 2019,2020,2021,2022  
./bin/tests/system/cookie/ns1/example.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns1/root.hint ZONE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns2/root.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns3/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns4/root.hint ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns5/root.hint ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns6/root.hint ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns7/root.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns8/example.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/prereq.sh SH 2020,2021,2022  
./bin/tests/system/cookie/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/cookie/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/01-ksk-inactive/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/01-ksk-inactive/expect X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/02-zsk-inactive/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/02-zsk-inactive/expect X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/03-ksk-unpublished/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/03-ksk-unpublished/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/04-zsk-unpublished/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/04-zsk-unpublished/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/05-ksk-unpub-active/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/05-ksk-unpub-active/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/06-zsk-unpub-active/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/06-zsk-unpub-active/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/07-ksk-ttl/README X 2013,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/07-ksk-ttl/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/08-zsk-ttl/README X 2013,2018,2019,2020,2021,2022

./bin/tests/system/coverage/08-zsk-ttl/expect X 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/09-check-zsk/README X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/09-check-zsk/expect X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/10-check-ksk/README X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/10-check-ksk/expect X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/11-cutoff/README X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/11-cutoff/expect X 2014,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/12-ksk-deletion/expect X 2018,2019,2020,2021,2022  
./bin/tests/system/coverage/13-dotted-dotless/expect X 2019,2020,2021,2022  
./bin/tests/system/coverage/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/coverage/tests.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/database/clean.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/database/ns1/named1.conf.in CONF-C 2011,2013,2018,2019,2020,2021,2022  
./bin/tests/system/database/ns1/named2.conf.in CONF-C 2011,2013,2018,2019,2020,2021,2022  
./bin/tests/system/database/setup.sh SH 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/database/tests.sh SH 2011,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/clean.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns1/inlineslave.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns1/named.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns2/added.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns2/named.args X 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns2/named.conf CONF-C 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/ns2/normal.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/delzone/tests.sh SH 2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/clean.sh SH 2019,2020,2021,2022  
./bin/tests/system/dialup/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns2/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns3/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/ns3/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/dialup/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digcomp.pl PERL 2000,2001,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ans4/startme X 2017,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ans7/ans.pl PERL 2020,2021,2022  
./bin/tests/system/digdelv/clean.sh SH 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/prereq.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/digdelv/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/ditch.pl PERL 2015,2016,2018,2019,2020,2021,2022



./bin/tests/system/dlv/clean.sh SH 2004,2007,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns1/root.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns1/rootservers.utld.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns2/druz.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns2/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns2/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns2/utld.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns3/child.db.in ZONE 2004,2007,2010,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns3/dlv.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns3/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns3/sign.sh SH 2004,2007,2009,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns4/child.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns4/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns5/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns5/rndc.conf CONF-C 2004,2007,2013,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns6/child.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns6/hints ZONE 2010,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns6/sign.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns7/hints ZONE 2019,2020,2021,2022  
 ./bin/tests/system/dlv/ns7/named.conf.in CONF-C 2019,2020,2021,2022  
 ./bin/tests/system/dlv/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/setup.sh SH 2004,2007,2009,2011,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlv/tests.sh SH 2004,2007,2010,2011,2012,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlz/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/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-spisc.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  
./bin/tests/system/geoip2/ns2/named2.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named3.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named4.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named5.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named6.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named7.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named8.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/ns2/named9.conf.in CONF-C 2019,2020,2021,2022  
./bin/tests/system/geoip2/prereq.sh SH 2019,2020,2021,2022  
./bin/tests/system/geoip2/setup.sh SH 2019,2020,2021,2022  
./bin/tests/system/geoip2/tests.sh SH 2019,2020,2021,2022  
./bin/tests/system/glue/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/fi.good X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/glue/nogluce.good X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/cache.in ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/mil.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/net.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/root-servers.nil.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/setup.sh SH 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/tests.sh SH 2000,2001,2003,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/glue/xx.good X 2000,2001,2018,2019,2020,2021,2022  
./bin/tests/system/glue/yy.good X 2000,2001,2003,2018,2019,2020,2021,2022  
./bin/tests/system/gost/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/ns1/root.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/ns2/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/prereq.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/gost/tests.sh SH 2010,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/idna/clean.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/idna/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/idna/ns1/root.db ZONE 2018,2019,2020,2021,2022  
./bin/tests/system/idna/setup.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/idna/tests.sh SH 2018,2019,2020,2021,2022

./bin/tests/system/ifconfig.bat BAT 2016,2018,2019,2020,2021,2022  
./bin/tests/system/ifconfig.sh SH  
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  
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./bin/tests/system/inline/ns4/noixfr.db.in ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns5/named.conf.post CONF-C 2011,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/inline/ns5/named.conf.pre CONF-C 2011,2016,2018,2019,2020,2021,2022  
./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  
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./bin/tests/system/ixfr/ans2/startme X 2011,2018,2019,2020,2021,2022  
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./bin/tests/system/ixfr/ns3/mytest0.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/ixfr/ns3/mytest1.db ZONE 2011,2016,2018,2019,2020,2021,2022  
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./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  
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./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  
./bin/tests/system/keymgr/19-old-keys/README.TXT.BRIEF 2019,2020,2021,2022  
./bin/tests/system/keymgr/19-old-keys/expect X 2019,2020,2021,2022  
./bin/tests/system/keymgr/19-old-keys/extra.sh SH 2019,2020,2021,2022  
./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  
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./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  
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 ./bin/tests/system/lwresd/lwtest.c C  
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 ./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  
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 ./bin/tests/system/lwresd/ns1/example2.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/lwresd/ns1/ip6.arpa.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/lwresd/ns1/ip6.int.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/lwresd/ns1/named.conf CONF-C  
 2000,2001,2004,2006,2007,2008,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/lwresd/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/lwresd/resolv.conf CONF-SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/lwresd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/clean.sh SH 2001,2004,2007,2010,2012,2014,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/knowngood.dig.out X 2001,2004,2012,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/ns1/include.db ZONE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022



./bin/tests/system/masterfile/ns1/sub.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/ns1/ttl1.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/ns1/ttl2.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/ns2/example.db ZONE 2010,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/setup.sh SH 2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/tests.sh SH 2001,2004,2007,2010,2012,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/zone/inheritorownerafterinclude.db ZONE 2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/masterfile/zone/inheritorownerafterinclude.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  
./bin/tests/system/pipelined/ns3/named.args X 2014,2015,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/pipequeries.c C 2014,2015,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/ref X 2014,2015,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/refb X 2014,2015,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/setup.sh SH 2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pipelined/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11/2037-pk11\_numbits-crash-test.pkt X 2020,2021,2022  
./bin/tests/system/pkcs11/clean.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11/ns1/named.conf CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11/setup.sh SH 2010,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11/tests.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11/usepkcs11 X 2010,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11ssl/clean.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11ssl/ns1/example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11ssl/ns1/named.conf CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11ssl/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11ssl/setup.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11ssl/tests.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/pkcs11ssl/usepkcs11 X 2014,2018,2019,2020,2021,2022

./bin/tests/system/reclimit/README TXT.BRIEF 2014,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ans2/ans.pl PERL 2014,2015,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ans4/ans.pl PERL 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ans7/ans.pl PERL 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/clean.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns1/root.db ZONE 2014,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/hints.db ZONE 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/named3.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/ns3/named4.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/prereq.sh SH 2015,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/setup.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/reclimit/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/clean.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/bad1.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/bad2.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/bad3.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/good1.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/good2.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/good3.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/conf/good4.conf CONF-C 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/example.db ZONE 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/redirect.db ZONE 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/root.db ZONE 2011,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns2/example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns2/redirect.db.in ZONE 2011,2013,2013,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns3/example.db ZONE 2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns3/redirect.db ZONE 2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns3/root.db ZONE 2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns3/sign.sh SH 2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns4/example.db.in ZONE 2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/ns4/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/setup.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
 ./bin/tests/system/redirect/tests.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
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 ./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/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/tld2.db ZONE 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns5/child.server.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns5/moves.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/resolver/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022  
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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  
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./bin/tests/system/resolver/ns7/edns-version.tld.db ZONE 2014,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpz/test2 ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpz/test3 ZONE 2011,2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpz/test4 ZONE 2011,2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpz/test5 ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/ns1/test1.example.net.db ZONE 2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/ns2/db.wildcard2a ZONE 2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/ns2/db.wildcard3 ZONE 2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/ns2/named.wildcard1.conf CONF-C 2015,2016,2018,2019,2020,2021,2022  
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./bin/tests/system/rpzrecurse/ns3/root.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns4/child.example.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/rpzrecurse/ns4/named.conf.in CONF-C 2016,2018,2019,2020,2021,2022  
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./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  
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./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  
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 ./bin/tests/system/rrsetorder/tests.sh SH 2006,2007,2008,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022  
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 ./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  
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./bin/tests/system/sortlist/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/spf/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/spf/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./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  
 ./bin/tests/system/stub/ns3/named.conf.in CONF-C 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  
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 ./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  
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 ./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  
./bin/tests/system/unknown/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./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  
./bin/tests/system/upforwd/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/ns3/nomaster.db ZONE 2011,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/setup.sh SH 2000,2001,2004,2007,2011,2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/upforwd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/verify/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/verify/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/verify/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/verify/tests.sh SH 2012,2013,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/verify/zones/genzones.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/verify/zones/unsigned.db ZONE 2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/clean.sh SH  
2000,2001,2004,2005,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/views/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/1.10.in-addr.arpa.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/clone.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/example1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/example2.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/external/inline.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/internal/inline.db ZONE 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/views/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/views/ns3/child.clone.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns3/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/views/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/views/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/views/ns5/child.clone.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./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  
./bin/tests/system/wildcard/ns1/nsec.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022  
./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  
./bin/tests/system/xferquota/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/xferquota/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ans5/ans.pl PERL 2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns2/tld.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns3/root.hint ZONE 2013,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zero/ns4/one.tld.db ZONE 2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/prereq.sh SH 2018,2019,2020,2021,2022  
./bin/tests/system/zero/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zero/tests.sh SH 2013,2016,2017,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/a.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/aaaa.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/bigserial.db ZONE 2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/cname.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/dname.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/noaddress.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/nxdomain.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/setup.sh SH 2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/system/zonechecks/tests.sh SH 2004,2007,2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/testdata/wire/wire\_test.data X 1999,2000,2001,2018,2019,2020,2021,2022  
./bin/tests/testdata/wire/wire\_test.data2 X 1999,2000,2001,2018,2019,2020,2021,2022  
./bin/tests/testdata/wire/wire\_test.data3 X 1999,2000,2001,2018,2019,2020,2021,2022  
./bin/tests/testdata/wire/wire\_test.data4 X 1999,2000,2001,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/Makefile.in MAKE 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/README TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-ksk/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-ksk/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./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  
./bin/tests/virtual-time/autosign-ksk/tests.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-zsk/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022  
./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  
./bin/tests/virtual-time/autosign-zsk/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-zsk/ns1/sign.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-zsk/ns1/wrap.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-zsk/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/autosign-zsk/tests.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/cleanall.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/common/controls.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/common/rndc.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/common/root.hint ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/conf.sh.in SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/run.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/runall.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/ns1/wrap.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/slave/tests.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/start.pl PERL 2010,2012,2015,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/start.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/stop.pl PERL 2010,2012,2016,2018,2019,2020,2021,2022  
./bin/tests/virtual-time/stop.sh SH 2010,2012,2016,2018,2019,2020,2021,2022  
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`./contrib/dlz/modules/ldap/testing/named.conf` X 2013,2018,2019,2020,2021,2022  
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`./contrib/dlz/modules/mysql/testing/dlz.data` X 2013,2017,2018,2019,2020,2021,2022  
`./contrib/dlz/modules/mysql/testing/dlz.schema` X 2013,2018,2019,2020,2021,2022  
`./contrib/dlz/modules/mysql/testing/named.conf` X 2013,2018,2019,2020,2021,2022  
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`./contrib/dlz/modules/mysqldyn/README` X 2014,2018,2019,2020,2021,2022  
`./contrib/dlz/modules/mysqldyn/dlz_mysqldyn_mod.c` X 2014,2015,2018,2019,2020,2021,2022  
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`./contrib/dlz/modules/wildcard/README` X 2013,2018,2019,2020,2021,2022  
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 ./util/check-make-install.in SH 2020,2021,2022  
 ./util/check-pullups.pl PERL 2001,2002,2003,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/check-sources.pl PERL 2000,2001,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022  
 ./util/check-win32util-configure SH 2019,2020,2021,2022  
 ./util/checklibs.sh SH 2017,2018,2019,2020,2021,2022  
 ./util/commit-arm.sh SH 2012,2016,2018,2019,2020,2021,2022  
 ./util/copyrights X  
 1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
 ./util/git-replay-merge.sh SH 2018,2019,2020,2021,2022  
 ./util/kit.sh SH  
 2000,2001,2002,2003,2004,2007,2008,2009,2010,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022  
 ./util/mandoc2docbook.pl PERL 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/mdnbuildtest.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/memleak.pl PERL 1999,2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/merge\_copyrights PERL  
 1998,1999,2000,2001,2003,2004,2005,2006,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022  
 ./util/mksymtbl.pl PERL 2009,2012,2016,2018,2019,2020,2021,2022  
 ./util/models.c C 2015,2016,2018,2019,2020,2021,2022  
 ./util/nanny.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/new-func PERL 2005,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/nt-kit SH 1999,2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/pairwise-testing.sh SH 2020,2021,2022  
 ./util/parse\_tsan.py PYTHON-BIN 2020,2021,2022  
 ./util/spacewhack.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/tabify-changes SH 2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/update-drafts.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/update\_branches PERL 2005,2007,2012,2016,2018,2019,2020,2021,2022  
 ./util/update\_copyrights PERL  
 1998,1999,2000,2001,2004,2005,2006,2007,2008,2009,2010,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022

```

./util/xc SH 2012,2013,2016,2018,2019,2020,2021,2022
./util/xmlint-html.sh SH 2021,2022
./version X
1998,1999,2000,2001,2003,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./win32utils/Configure PERL 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./win32utils/GeoIP.diff X 2013,2018,2019,2020,2021,2022
./win32utils/bind9.sln.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./win32utils/index.html HTML 2006,2007,2008,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./win32utils/legacy/BINDBuild.dsw.in X
2001,2005,2006,2008,2009,2010,2013,2014,2015,2016,2018,2019,2020,2021,2022
./win32utils/legacy/BuildAll.bat.in BAT
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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-
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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, '
'))"/>
<xsl:text>
</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '
')"/>
<xsl:if test="translate($rest, '	 ', '')">
<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="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

```

<!--
- Local variables:
- mode: sgml
- End:
-->

```

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## 1.183 nettle 3.7.3

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# 1.185 libn13 3.4.0

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Version 3, 29 June 2007

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## 1.187.1 Available under license :

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:

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# 1.188 ncurses 6.3-r0

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Calling this script install-sh is preferred over install.sh, to prevent `make` implicit rules from creating a file called install from it when there is no Makefile.

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

# 1.189 prettytable 0.7.2-7.ph4

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```
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# 1.190 lvm2 2.02.180

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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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/\* CMU libsasl

\* Tim Martin

\* Rob Earhart

\* Rob Siemborski

\*/

/\*

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## 1.194 idna 2.7

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

```
import io, sys
from setuptools import setup
```

```
def main():
```

```
 python_version = sys.version_info[:2]
 if python_version < (2,6):
 raise SystemExit("Sorry, Python 2.6 or newer required")
```

```

package_data = { }
exec(open('idna/package_data.py').read(), package_data)

arguments = {
 'name': 'idna',
 'packages': ['idna'],
 'version': package_data['__version__'],
 'description': 'Internationalized Domain Names in Applications (IDNA)',
 'long_description': io.open("README.rst", encoding="UTF-8").read(),
 'author': 'Kim Davies',
 'author_email': 'kim@cynosure.com.au',
 'license': 'BSD-like',
 'url': 'https://github.com/kjd/idna',
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 'Programming Language :: Python :: 3.4',
 'Programming Language :: Python :: 3.5',
 'Programming Language :: Python :: 3.6',
 'Topic :: Internet :: Name Service (DNS)',
 'Topic :: Software Development :: Libraries :: Python Modules',
 'Topic :: Utilities',
],
 'test_suite': 'tests',
}

```

```

setup(**arguments)

```

```

if __name__ == '__main__':
 main()

```

Found in path(s):

\* /opt/cola/permits/1110765725\_1606850597.72/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/setup.py

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# 1.196 pluggy 0.6.0

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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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# 1.199 mingetty 1.08-r3

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Version 2, June 1991

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```
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```
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```

```
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```
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This is free software, and you are welcome to redistribute it
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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Version 2.1, February 1999

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## 1.203 icu 62

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## \*-makefile\*-

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, \*BSD)

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## Commands to generate dependency files

GEN\_DEPS.c= \$(CC) -E -MM \$(DEFS) \$(CPPFLAGS)

GEN\_DEPS.cc= \$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC

SHAREDLIBCXXFLAGS = -fPIC

SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D\_REENTRANT

LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD\_RPATH=

LD\_RPATH\_PRE= -Wl,-rpath,

## Compiler switch to embed a library name

LD\_SONAME = -Wl,-soname -Wl,\$(notdir \$(MIDDLE\_SO\_TARGET))

## Shared library options

LD\_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC\_O = ao

```

Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

Bind internal references

LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

Dependencies [i.e. map files] for the final library
BIR_DEPS=

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

End BSD-specific setup

```

# 1.204 pyudev 0.21.0

## 1.204.1 Available under license :

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Version 2.1, February 1999

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## 1.211 libunistring 0.9.10

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

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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

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

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

#### 1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source

includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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

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

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```
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ASN.1 library for Python

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blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs

as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

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

## Features

-----

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

## Why using pyasn1

-----

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

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

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

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

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

## How to use pyasn1

-----

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

```
```bash
Record ::= SEQUENCE {
```



```

id    INTEGER,
room [0] INTEGER OPTIONAL,
house [1] INTEGER DEFAULT 0
}
...

```

Could be expressed in pyasn1 like this:

```

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

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

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

```

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

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)

```

```
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...
```

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

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

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...
```
```

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

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

...

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

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

How to get pyasn1

-----

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

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

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

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Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1063016395\_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/README.md  
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ASN.1 library for Python

=====

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

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

The `pyasn1` [<https://pypi.org/project/pyasn1/>](https://pypi.org/project/pyasn1/) library implements ASN.1 support in pure-Python.

What is ASN.1

-----

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

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

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

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

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

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

ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies

use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

-----

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

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

Documentation

-----

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

`/pyasn1/contents`

Use case

-----

```
.. toctree::
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```

`/example-use-case`

Download & Install

-----

```
.. toctree::
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```

`/download`

## Changes

-----

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

```
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```

[/changelog](#)

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-----

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```
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```

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## Getting help

-----

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

## Books on ASN.1

-----

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

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

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

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

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

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

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

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1063016395\_1592949447.38/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst

## 1.214 sqlite 3.35.5

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@page

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@c Local Variables:

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

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Version 3, 29 June 2007

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```

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## 1.216 linux\_kernel\_zlib 5.10.149

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```

```
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Ty Coon, President of Vice
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Files: .libs/libopenb\*.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: LAPACK

Files: .libs/libopenb\*.so

Description: bundled in OpenBLAS

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: GCC runtime library

Files: .libs/libgfortran\*.so

Description: dynamically linked to files compiled with gcc

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Version 3.1, 31 March 2009

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PCG64
```

```
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PCG Random Number Generation for C.

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# SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

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# SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/immeme/f1f7821f07cf76504a97f6537c818083>

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# MT19937

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The rk\_random and rk\_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of rk\_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk\_double implementation by Isaku Wada.

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## 1.221 perl 5.24.4

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Julian Seward, jseward@bzip.org  
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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  
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url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: 1.4  
name: Module-Build  
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```

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any later version.
```

```
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```

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```
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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The End

```
#!/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 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;
}
```

# 1.222 Isof 4.91

## 1.222.1 Available under license :

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Version 2, June 1991

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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

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

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

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

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Version 3, 29 June 2007

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

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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## 1.230 libffi 3.2.1

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## 1.231 glibc 2.28-r0

### 1.231.1 Available under license :

```
/* _setjmp is implemented in setjmp.S */
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999
```

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

```
@display
Copyright @copyright{ } 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

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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.]
@end display
```

```
@subheading Preamble
```

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@item

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/\* setjmp is implemented in setjmp.S \*/

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```
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```

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```
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```

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```
-*-makefile-*-
BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
Copyright (c) 1999-2009, International Business Machines Corporation and
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```

```
Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
```

```

SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so
Non-shared intermediate object suffix
STATIC_O = ao

Compilation rules
%.${STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

Versioned libraries rules

```

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

End FreeBSD-specific setup
```

## 1.237 oauthlib 2.0.6

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## 1.238 xz 5.2.4

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.240 sysv-init 2.86-1

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Send patches to `sysvinit-devel@nongnu.org`

The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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## 1.241 libcap-ng 0.7.9-r0

### 1.241.1 Available under license :

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## 1.245 inetutils 1.9.4

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FDBD 72A3 2401 F900 F25C 1324 0333 C7E8 3EB6 E2AF 889F"
FEATURE server prime 1.6 31-dec-2012 50 SIGN="0004 3595 BFD4 892A \
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FEATURE lib prime 1.79 31-dec-2012 50 SIGN="002A 8209 BA7A B8FC \
8AE3 7E3A 58A6 6D00 02DB 2F9B EAC6 2BD2 47E5 5FB2 19D2" OVERDRAFT=123 NOTICE="A small
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VENDOR orbit

USE\_SERVER

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ISSUED=17-sep-2014 START=17-sep-2014 SIGN=7D57F8AC868C

INCREMENT venus orbit 2.0 30-nov-2013 10 ISSUED=17-sep-2013 \

START=17-sep-2013 SIGN=7F69336673D2

INCREMENT mars orbit 2.0 30-nov-2013 10 \

ISSUED=17-sep-2013 START=17-sep-2013 SIGN=C88322A22368

INCREMENT gui orbit 2.0 30-nov-2013 10 \

ISSUED=17-sep-2013 START=17-sep-2013 SIGN=B1986486AEB0 USER\_BASED

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VENDOR\_STRING=1930003038 ISSUER=FID\_5c67d866\_1367dfb21a\_\_716b \

NOTICE=perpetual SIGN="006A 328E 5CA5 B0A7 1B37 9688 A12B CE33 \

D316 F6C0 2A86 70B8 8D41 70FE F06B 18DE 4478 D0DC 655A B439 \

F807 21C3 1BA6 2749 11F6 87F8 B4B9 1E09 DC3E 1A81"

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401, 402, 404, 405, 406, 410, 415, 417" HOSTID=ANY SIGN="059A \

ADF2 E521 D7F7 F15B 5B42 58FE 15BA 3A5B 22B3 5348 0C40 5491 \

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CA2C 7B61 BDD6 C2A5 F8BA"

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# Comment

VENDOR orbit port=1234

USE\_SERVER

INCREMENT jupiter orbit 2.0 09-may-2014 10 \

ISSUED=17-sep-2014 START=17-sep-2014 SIGN=7D57F8AC868C

INCREMENT venus orbit 2.0 15-may-2014 10 ISSUED=17-sep-2013 \ # one more comment

START=17-sep-2013 SIGN=7F69336673D2 # and another comment

INCREMENT mars orbit 2.0 05-may-2014 10 \

ISSUED=17-sep-2013 START=17-sep-2013 SIGN=C88322A22368

INCREMENT gui orbit 2.0 10-may-2014 10 \

ISSUED=17-sep-2013 START=17-sep-2013 SIGN=B1986486AEB0 USER\_BASED

INCREMENT sun orbit 1.0 permanent 1 \

ISSUED=17-sep-2013 START=17-sep-2013 SIGN=B1986486AEB0 USER\_BASED

FEATURE neptune orbit 4.0 permanent uncounted VENDOR\_STRING=" \

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325D 068B 09B6 5DDE 9815 C6E2 61BE 987D 34E2 349C 4BED BDB0 \

CA2C 7B61 BDD6 C2A5 F8BA" # comment comment comment

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Send patches to `sysvinit-devel@nongnu.org`

The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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## 1.250 xinetd 2.3.15-r2

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## 1.251.1 Available under license :

```
/*
* SHA-512
* Implementation derived from LibTomCrypt (Tom St Denis)
*
* LibTomCrypt is a library that provides various cryptographic
* algorithms in a highly modular and flexible manner.
*
* The library is free for all purposes without any express
* guarantee it works.
*
* Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
*/
```

# 1.252 diffutils 3.6

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## 1.253 rpcbind 0.2.4-r0

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# 1.254 lvm2 2.02.187-2.ph3

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Version 2.1, February 1999

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## 1.257 setserial 2.17

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Found in path(s):

\* /opt/cola/permits/1606678443\_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/setserial.8.in

```
* /opt/cola/permits/1606678443_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/setserial.8
```

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```
/*
```

```
* version.h --- Defines the version number of setserial
```

```
*
```

```
* Copyright 1995, 1996, 1997, 1998 by Theodore Ts'o. This file may be
```

```
* redistributed under the GNU Public License.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1606678443_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/version.h
```

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```
/*
```

```
* include/linux/serial.h
```

```
*
```

```
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```

```
*
```

```
* Redistribution of this file is permitted under the terms of the GNU
```

```
* Public License (GPL)
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1606678443_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/linux/serial.h
```

## 1.258 pycparser 2.18

### 1.258.1 Available under license :

pycparser -- A C parser in Python

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## 1.259 expat 2.4.7

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## 1.260 python-requests 2.13.0

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## 1.264 rfc3987 1.3.7

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Version 3, 29 June 2007

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## 1.267 python 3.7.10

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting

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

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

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

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

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Andric, Dimitry  
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Bellis, Ray  
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Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
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```
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## 1.270 rpm 4.14.2

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## 1.271 dhcp 4.4.2

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were

derived from the ones in the Monotone project, revision  
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<!--
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-->
```

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

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

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

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

```

<!--

- Local variables:  
 - mode: sgml  
 - End:

-->

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# 1.272 gdb 8.2

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Version 2, June 1991

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/\* Native-dependent code for modern AMD64 BSD's.

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```
#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H
```

```
#include "x86-bsd-nat.h"
```

```
/* Helper functions. See definitions. */
```

```
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
int regnum);
```

```
/* A prototype *BSD/AMD64 target. */
```

```
template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
void fetch_registers (struct regcache *regcache, int regnum) override
{ amd64bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override
{ amd64bsd_store_inferior_registers (regcache, regnum); }
};
```

```
#endif /* i386-bsd-nat.h */
```

```
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 (const char *, int);"
print ""
print "static void show_warranty_command (const char *, int);"
print ""
print "static void";
print "show_copying_command (const 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 (const 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 "}";
}
/* BSD Kernel Data Access Library (libkvm) interface.

```

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```
#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h" /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
register state from PCB and supplies it to REGCACHE. */
```

```
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);
```

```
/* This is the ptid we use while we're connected to kvm. The kvm
target currently doesn't export any view of the running processes,
so this represents the kernel task. */
```

```
static ptid_t bsd_kvm_ptid;
```

```
/* The libkvm target. */
```

```
static const target_info bsd_kvm_target_info = {
 "kvm",
 N_("Kernel memory interface"),
 N_("Use a kernel virtual memory image as a target.\n\nOptionally specify the filename of a core dump."),
};
```

```
class bsd_kvm_target final : public target_ops
```

```
{
```

```
public:
```

```
 bsd_kvm_target ()
```

```
 { this->to_stratum = process_stratum; }
```

```
 const target_info &info () const override
```

```
 { return bsd_kvm_target_info; }
```

```
 void close () override;
```

```
 void fetch_registers (struct regcache *, int) override;
```

```
 enum target_xfer_status xfer_partial (enum target_object object,
```

```
 const char *annex,
```

```
 gdb_byte *readbuf,
```

```
 const gdb_byte *writebuf,
```

```
 ULONGEST offset, ULONGEST len,
```

```
 ULONGEST *xfered_len) override;
```

```
 void files_info () override;
```

```
 bool thread_alive (ptid_t ptid) override;
```

```
 const char *pid_to_str (ptid_t) override;
```

```
 bool has_memory () override { return true; }
```

```
 bool has_stack () override { return true; }
```

```
 bool has_registers () override { return true; }
```

```
};
```

```
/* Target ops for libkvm interface. */
```

```
static bsd_kvm_target bsd_kvm_ops;
```

```
static void
```

```

bsd_kvm_target_open (const char *arg, int from_tty)
{
 char errbuf[_POSIX2_LINE_MAX];
 char *execfile = NULL;
 kvm_t *temp_kd;
 char *filename = NULL;

 target_preopen (from_tty);

 if (arg)
 {
 char *temp;

 filename = tilde_expand (arg);
 if (filename[0] != '/')
 {
 temp = concat (current_directory, "/", filename, (char *)NULL);
 xfree (filename);
 filename = temp;
 }
 }

 execfile = get_exec_file (0);
 temp_kd = kvm_openfiles (execfile, filename, NULL,
 write_files ? O_RDWR : O_RDONLY, errbuf);
 if (temp_kd == NULL)
 error ("%s", errbuf);

 bsd_kvm_corefile = filename;
 unpush_target (&bsd_kvm_ops);
 core_kd = temp_kd;
 push_target (&bsd_kvm_ops);

 add_thread_silent (bsd_kvm_ptid);
 inferior_ptid = bsd_kvm_ptid;

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
 if (core_kd)
 {
 if (kvm_close (core_kd) == -1)

```

```

warning ("%s"), kvm_geterr(core_kd));
 core_kd = NULL;
}

inferior_ptid = null_ptid;
discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
 gdb_byte *readbuf, const gdb_byte *writebuf)
{
 ssize_t nbytes = len;

 if (readbuf)
 nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
 if (writebuf && nbytes > 0)
 nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
 return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
 const char *annex, gdb_byte *readbuf,
 const gdb_byte *writebuf,
 ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
 switch (object)
 {
 case TARGET_OBJECT_MEMORY:
 {
 LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

 if (ret < 0)
 return TARGET_XFER_E_IO;
 else if (ret == 0)
 return TARGET_XFER_EOF;
 else
 {
 *xfered_len = (ULONGEST) ret;
 return TARGET_XFER_OK;
 }
 }
 }

 default:
 return TARGET_XFER_E_IO;
}
}

```



```

void
bsd_kvm_target::files_info ()
{
if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
 printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
 bsd_kvm_corefile);
else
 printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR. */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
 struct pcb pcb;

if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
 error ("%s", kvm_geterr (core_kd));

 gdb_assert (bsd_kvm_supply_pcb);
 return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
 struct nlist nl[2];

if (bsd_kvm_paddr)
 {
 bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
 return;
 }

/* On dumping core, BSD kernels store the faulting context (PCB)
 in the variable "dumppcb". */
 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_dumppcb";

if (kvm_nlist (core_kd, nl) == -1)
 error ("%s", kvm_geterr (core_kd));

if (nl[0].n_value != 0)
 {
 /* Found dumppcb. If it contains a valid context, return
 immediately. */
 }
}

```

```

 if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
return;
}

/* Traditional BSD kernels have a process proc0 that should always
be present. The address of proc0's PCB is stored in the variable
"proc0paddr". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
 error ("%s", kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
 struct pcb *paddr;

 /* Found proc0paddr. */
 if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error ("%s", kvm_geterr (core_kd));

 bsd_kvm_fetch_pcb (regcache, paddr);
 return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
lives in `struct proc' but in `struct thread'. The `struct
thread' for the initial thread for proc0 can be found in the
variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
 error ("%s", kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
 struct pcb *paddr;

 /* Found thread0. */
 nl[0].n_value += offsetof (struct thread, td_pcb);
 if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error ("%s", kvm_geterr (core_kd));

 bsd_kvm_fetch_pcb (regcache, paddr);

```

```

 return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
 /* ??? Should this become an alias for "target kvm"? */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
 CORE_ADDR addr;

 if (arg == NULL)
 error_no_arg (_("proc address"));

 if (core_kd == NULL)
 error (_("No kernel memory image.));

 addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
 addr += offsetof (struct lwp, l_addr);
#else
 addr += offsetof (struct proc, p_addr);
#endif
}

if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
 error (("s"), kvm_geterr (core_kd));

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

```

```

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
 if (arg == NULL)
 /* i18n: PCB == "Process Control Block". */
 error_no_arg (_, "pcb address");

 if (core_kd == NULL)
 error (_, "No kernel memory image.");

 bsd_kvm_paddr = (struct pcb *) (u_long) parse_and_eval_address (arg);

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
 return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
 static char buf[64];
 xsnprintf (buf, sizeof buf, "<kvm>");
 return buf;
}

/* Add the libkvm interface to the list of all possible targets and
 register CUPPLY_PCB as the architecture-specific process control
 block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
 gdb_assert (bsd_kvm_supply_pcb == NULL);
 bsd_kvm_supply_pcb = supply_pcb;

 add_target (bsd_kvm_target_info, bsd_kvm_target_open);

 add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
Generic command for manipulating the kernel memory interface."),
 &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);
}

```

```

#ifdef HAVE_STRUCT_THREAD_TD_PCB
add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
 _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
 /* i18n: PCB == "Process Control Block". */
 _("Set current context from pcb address"), &bsd_kvm_cmdlist);

```

/\* Some notes on the ptid usage on this target.

The pid field represents the kvm inferior instance. Currently, we don't support multiple kvm inferiors, but we start at 1 anyway. The lwp field is set to != 0, in case the core wants to refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads, the following form can be used:

```

ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

```

```

bsd_kvm_ptid = ptid_t (1, 1, 0);

```

```

}

```

```

/* Native-dependent code for x86 BSD's.

```

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```

#ifdef X86_BSD_NAT_H
#define X86_BSD_NAT_H

```

```

#include "x86-nat.h"

```

```

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
 using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
 void mourn_inferior () override
 {
 x86_cleanup_dregs ();
 base_class::mourn_inferior ();
 }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */

```

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```
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```

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```
<program> Copyright (C) <year> <name of author>
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under certain conditions; type `show c' for details.
```

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```
#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
 int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
 int regnum);

/* A prototype *BSD/i386 target. */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { i386bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */

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Version 2, June 1991
```

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

```
That's all there is to it!
#!/usr/bin/env python
```

```
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```

```

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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 algorithm 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 MULTIPLE_COPYRIGHT_HEADERS:
 print
 print("\033[31m"
 "REMINDER: Multiple copyright headers must be updated by hand:"
 "\033[0m")
 for filename in MULTIPLE_COPYRIGHT_HEADERS:
 print " ", filename

if BY_HAND:
 print
 print "\033[31mREMINDER: The following files must be updated by hand." \
 "\033[0m"
 for filename in BY_HAND:
 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 = (
 # Nothing at the moment :-).
)

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-accftp.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-semantic.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_eeeprom.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()

```

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## 1.273 ply 3.11

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# PLY (Python Lex-Yacc)                      Version 3.11

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

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## Introduction

=====

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

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

## How to Use

=====

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

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

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

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

```
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document

#### Requirements

=====

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

#### Resources

=====

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

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

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

The GitHub page for PLY can be found at:

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

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

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

#### Acknowledgments

=====

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

The CHANGES file acknowledges those who have contributed patches.

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

Special Note for PLY-3.0

=====

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

Example

=====

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

```

calc.py

A simple calculator with variables.

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

Tokens

t_PLUS = r\+'
t_MINUS = r\-'
t_TIMES = r*'
t_DIVIDE = r\/'
t_EQUALS = r\='
t_LPAREN = r\('
t_RPAREN = r\)'
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

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

```

Ignored characters
t_ignore = " \t"

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

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

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

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

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

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

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

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

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

```

```

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

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

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

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

import ply.yacc as yacc
yacc.yacc()

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

```

## Bug Reports and Patches

=====

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

-- Dave

Found in path(s):

```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/README.md
```

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Found in path(s):

\* /opt/cola/permits/1160874329\_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/example/GardenSnake/GardenSnake.py

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\* /opt/cola/permits/1160874329\_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/ply/yacc.py

# 1.274 tar 1.34-r0

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Version 3, 29 June 2007

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## 1.277 chardet 3.0.4

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# 1.278 openssh 7.8p1

## 1.278.1 Available under license :

```
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */
```

```
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```

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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 nfd_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 *, nfd_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
This file is part of the OpenSSH software.

```

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```

[Tatu continues]

```

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- DES is now external, in the OpenSSL library
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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
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- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
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[The licence continues]

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\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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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

/\*

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential 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 */

```

## 1.279 rpcbind 0.2.4

### 1.279.1 Available under license :

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1045960566\_1592319068.67/0/pld-linux-rpcbind-auto-th-rpcbind-0-2-4-1-0-g743aa28-tar-gz/pld-linux-rpcbind-743aa28/rpcbind.spec

## 1.280 wcwidth 0.1.7

### 1.280.1 Available under license :

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## 1.281 kmod 25

### 1.281.1 Available under license :

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## 1.283 protobuf-c 1.3.1+git0+269771b4b4

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## 1.286 libvirt 4.7.0-r0

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## 1.287 libevdev 3.2.7

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# 1.288 clang 7.0.1

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```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.
```

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
 %L34 = load i8, i8* %0
 %Cmp56 = icmp sgt i8 undef, %L34
 br label %CF246
```

```
CF246: ; preds = %CF246, %BB
 %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
 br i1 undef, label %CF246, label %CF248
```

```
CF248: ; preds = %CF248, %CF246
 store i8 %S1163, i8* %0
 br label %CF248
}
```

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```
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
```

```
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:
```

```
 ; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
```

```
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
```

```
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
```

```
; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}
```

; This one is small enough to satisfy isSimple, but still illegally large.

```
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
```

```
; CHECK-LABEL: test_sitofp_fixed_shortish:
```

```
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1
```

```
; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
```

```
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```

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|                                                                                              |  |
|----------------------------------------------------------------------------------------------|--|
| add_llvm_library(lldbPluginObjectContainerBSDArchive PLUGIN<br>ObjectContainerBSDArchive.cpp |  |
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```
; RUN: llc -march=hexagon < %s
```

```
; REQUIRES: asserts
```

```
; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.
```

```
target triple = "hexagon"
```

```
%struct.0 = type { i8*, i8, %union.anon.0 }
```

```
%union.anon.0 = type { i8* }
```

```
define hidden fastcc void @fred() unnamed_addr #0 {
```

```
entry:
```

```
br i1 undef, label %while.end, label %while.body.lr.ph
```

```
while.body.lr.ph: ; preds = %entry
```

```
br label %while.body
```

```
while.body: ; preds = %exit.2, %while.body.lr.ph
```

```
%lsr.iv = phi %struct.0* [%cgep22, %exit.2], [undef, %while.body.lr.ph]
```

```
switch i32 undef, label %exit [
```

```
 i32 1, label %sw.bb.i
```

```
 i32 2, label %sw.bb3.i
```

```
]
```

```
sw.bb.i: ; preds = %while.body
```

```
unreachable
```

```
sw.bb3.i: ; preds = %while.body
```

```
unreachable
```

```
exit: ; preds = %while.body
```

```

switch i32 undef, label %exit.2 [
 i32 1, label %sw.bb.i17
 i32 2, label %sw.bb3.i20
]

sw.bb.i17: ; preds = %.exit
%0 = bitcast %struct.0* %lshr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lshr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lshr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

```

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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```
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.
```

```
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
```

```
define fp128 @TestSelect(fp128 %a, fp128 %b) {
 %cmp = fcmp ogt fp128 %a, %b
 %sub = fsub fp128 %a, %b
 %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
 ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}
```

```
define fp128 @TestFabs(fp128 %a) {
 %res = call fp128 @llvm.fabs.f128(fp128 %a)
 ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}
```

```
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
 %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
 ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}
```

```
define fp128 @TestFneg(fp128 %a) {
 %mul = fmul fp128 %a, %a
 %res = fsub fp128 0xL00000000000000008000000000000000, %mul
 ret fp128 %res
}
```

```
; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}
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```

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.  
The Encore Multimax modifications were supplied by  
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely  
due to Vernon Lee, on machines made available to Rice by IBM.  
Much of the HP specific code and a number of good suggestions for improving the  
generic code are due to Walter Underwood.  
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.  
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)  
subsequently provided updates and information on variation between ULTRIX  
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.  
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and  
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.  
Thomas Funke (thf@zelator.in-berlin.de(?)) and  
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.  
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.  
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader  
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and  
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and  
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.  
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to  
a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to  
nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the  
code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the  
current typed allocation facility. (His dynamic type inference code hasn't  
made it into the released version of the collector, yet.)  
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The upstream for fdlibm is libgcj (<http://gcc.gnu.org/java/>), they sync again with the 'real' upstream (<http://www.netlib.org/fdlibm/readme>).

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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

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```
@end smallexample
```

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

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

That's all there is to it!

```
@ignore
@c Set file name and title for man page.
```

@setfilename gfdl  
@settitle GNU Free Documentation License  
@c man begin SEEALSO  
gpl(7), fsf-funding(7).  
@c man end  
@c man begin COPYRIGHT  
Copyright @copyright{ } 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.  
@uref{http://fsf.org/}

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@c This file is intended to be included within another document,  
@c hence no sectioning command or @node.  
@c man end  
@end ignore  
@c Special handling for inclusion in the install manual.  
@ifset gfdlhtml  
@ifnohtml  
@comment node-name, next, previous, up  
@node GNU Free Documentation License, Concept Index, Old, Top  
@end ifnohtml  
@html  
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>  
@end html  
@ifnohtml  
@unnumbered GNU Free Documentation License  
@end ifnohtml  
@end ifset  
@c man begin DESCRIPTION  
@ifclear gfdlhtml  
@node GNU Free Documentation License  
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@c ispell-local-pdict: "ispell-dict"
@c End:
```

```
@c man end
Boost Software License - Version 1.0 - August 17th, 2003
```

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## 1.290 libusb 1.0.22-r0

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- \*
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## 1.299 sysv-init 2.86-1

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Send patches to [sysvinit-devel@nongnu.org](mailto:sysvinit-devel@nongnu.org)

The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
- \* public domain.

# 1.300 boost 1.68.0

## 1.300.1 Available under license :

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.  
The Encore Multimax modifications were supplied by  
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely  
due to Vernon Lee, on machines made available to Rice by IBM.  
Much of the HP specific code and a number of good suggestions for improving the  
generic code are due to Walter Underwood.  
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.  
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subsequently provided updates and information on variation between ULTRIX  
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Thomas Funke (thf@zelator.in-berlin.de(?)) and  
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.  
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.  
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader  
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and  
Sony News specific code. Al Dossier provided Alpha/OSF/1 code. He and  
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.  
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to  
a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to  
nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the  
code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the  
current typed allocation facility. (His dynamic type inference code hasn't  
made it into the released version of the collector, yet.)  
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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

```
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<body>
 <h3>
 Copyright Test
 </h3>
 <p class="copyright">
 1963, 1964, 1965 Jane Doe
 </p>
 <p class="copyright">
 2018 Joe Blow, John Coe
 </p>
 <p class="copyright">
 1977, 1985 Someone else
 </p>
</body>
</html>
```

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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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<year>2018</year> <holder>Joe Blow, John Coe</holder>
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////

[#mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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# 1.301 libassuan 2.5.1

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## 1.302 coreutils 8.30-r0

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## 1.307 python3-asn1crypto 0.24.0

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*
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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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@display
```

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/\* setjmp is implemented in setjmp.S \*/

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## 1.324 setserial 2.17



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# 1.326 cpio 2.12-r0

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## 1.327 tcp-wrappers 7.6-r10

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```

## 1.328 curl 7.87.0

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- test-apps/\*.c
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- minimal-examples/\*
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Version 2.1, February 1999

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# 1.330 parted 3.2

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Version 3, 29 June 2007

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>.
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# 1.334 grpc 1.15.1

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