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* From: @(#)tftp.h 8.1 (Berkeley) 6/2/93
*      $Id: tftp.h,v 1.1 2000/07/22 18:59:20 dholland Exp
 $
*
* (Fixed for netkit to have well-defined field sizes)
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*
/netkit-tftp-0-17-orig-2-tar-gz/netkit-tftp-0.17/tftp/main.c
* /netkit-tftp-0-17-orig-2-tar-gz/netkit-tftp-0.17/tftpd/tftpd.c

1.6 libffi 3.2.1

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1.7 xfsprogs 4.19.0

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1.8 libsmi 0.4.8

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---

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both

traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
Copying-policy: BeerWare: If you have the time and
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1.9 hostapd 2.0

1.9.1 Available under license :

wpa_supplicant and hostapd

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1.10 popt 1.5

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1.11 numactl 2.0.11

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1.17 erlang-otp 22.3.4.17

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Written by: Philip Hazel
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---

[PCRE]

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included in the distribution is a set of C++ wrapper functions, and a
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[Misc
C library code]

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```

[zlib]

```
/* zlib.h -- interface of
 the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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

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

[dialyzer]

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[edoc, syntax_tools]

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*/

For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

/**
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*/

For src/main/native/src/org/apache/hadoop/io/compress/lz4/lz4.c:

/*
  LZ4 - Fast LZ compression algorithm
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OR TORT
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*/
path: "tensorflow.errors.PermissionDeniedError"
tf_class {
 is_instance: "<class \'tensorflow.python.framework.errors_impl.PermissionDeniedError\'>"
 is_instance: "<class \'tensorflow.python.framework.errors_impl.OpError\'>"
 is_instance: "<type \'exceptions.Exception\'>"
 member {
  name: "args"
  mtype: "<type \'getset_descriptor\'>"
 }
 member {
  name: "error_code"
  mtype: "<type \'property\'>"
 }
 member {
  name: "experimental_payloads"
  mtype: "<type \'property\'>"
 }
 member {
  name: "message"
  mtype: "<type \'property\'>"
 }
 member {
  name: "node_def"
  mtype: "<type \'property\'>"
 }
 member {
  name: "op"
  mtype: "<type \'property\'>"
 }
 member_method {
  name: "__init__"
  argspec: "args=[\'self\', \'node_def\', \'op\', \'message\'], varargs=args, keywords=None, defaults=None"
 }
}
```

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Following applies to:
./test/mapstaticmethods.cpp
./test/schur_real.cpp
./test/prec_inverse_4x4.cpp
./test/smallvectors.cpp
./test/redux.cpp
./test/special_numbers.cpp
./test/adjoint.cpp
./test/resize.cpp
./test/mixingtypes.cpp
./test/product_trmv.cpp
./test/sparse_solvers.cpp
./test/cholesky.cpp
./test/geo_quaternion.cpp
./test/miscmatrices.cpp

./test/stddeque.cpp
./test/integer_types.cpp
./test/product_large.cpp
./test/eigensolver_generic.cpp
./test/householder.cpp
./test/geo_orthomethods.cpp
./test/array_for_matrix.cpp
./test/sparseLM.cpp
./test/upperbidiagonalization.cpp
./test/nomalloc.cpp
./test/packetmath.cpp
./test/jacobisvd.cpp
./test/geo_transformations.cpp
./test/swap.cpp
./test/eigensolver_selfadjoint.cpp
./test/inverse.cpp
./test/product_selfadjoint.cpp
./test/product_trsolve.cpp
./test/product_extra.cpp
./test/sparse_solver.h
./test/mapstride.cpp
./test/mapped_matrix.cpp
./test/geo_eulerangles.cpp
./test/eigen2support.cpp
./test/denseLM.cpp
./test/stdvector.cpp
./test/nesting_ops.cpp
./test/sparse_permutations.cpp
./test/zerosized.cpp
./test/exceptions.cpp
./test/vectorwiseop.cpp
./test/cwiseop.cpp
./test/basicstuff.cpp
./test/product_trmm.cpp
./test/linearstructure.cpp
./test/sparse_product.cpp
./test/stdvector_overload.cpp
./test/stable_norm.cpp
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./test/unalignedcount.cpp
./test/triangular.cpp
./test/product_mmtr.cpp
./test/sparse_basic.cpp
./test/sparse_vector.cpp
./test/meta.cpp
./test/real_qz.cpp
./test/ref.cpp
./test/eigensolver_complex.cpp

./test/cholmod_support.cpp
./test/conjugate_gradient.cpp
./test/sparse.h
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./test/product_notemporary.cpp
./test/geo_hyperplane.cpp
./test/lu.cpp
./test/qr.cpp
./test/hessenberg.cpp
./test/sizeof.cpp
./test/main.h
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./test/permutationmatrices.cpp
./test/superlu_support.cpp
./test/qtvector.cpp
./test/geo_homogeneous.cpp
./test/determinant.cpp
./test/array_reverse.cpp
./test/unalignedassert.cpp
./test/stdlist.cpp
./test/product_symm.cpp
./test/corners.cpp
./test/dontalign.cpp
./test/visitor.cpp
./test/geo_alignedbox.cpp
./test/diagonalmatrices.cpp
./test/product_small.cpp
./test/eigensolver_generalized_real.cpp
./test/umfpack_support.cpp
./test/first_aligned.cpp
./test/qr_fullpivoting.cpp
./test/array_replicate.cpp
./test/geo_parametrizedline.cpp
./test/eigen2/eigen2_unalignedassert.cpp
./test/eigen2/eigen2_prec_inverse_4x4.cpp
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./test/eigen2/eigen2_meta.cpp
./test/eigen2/eigen2_nomalloc.cpp
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./test/eigen2/eigen2_packetmath.cpp
./test/eigen2/eigen2_svd.cpp
./test/eigen2/eigen2_mixingtypes.cpp
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./test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp

./test/eigen2/eigen2_smallvectors.cpp
./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_sparse_solvers.cpp
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./test/eigen2/eigen2_lu.cpp
./test/eigen2/eigen2_adjoint.cpp
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./test/eigen2/eigen2_stdvector.cpp
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./test/eigen2/sparse.h
./test/eigen2/eigen2_swap.cpp
./test/eigen2/eigen2_triangular.cpp
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./unsupported/Eigen/src/Polynomials/Companion.h

./unsupported/Eigen/src/Polynomials/PolynomialUtils.h
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./unsupported/Eigen/src/Skyline/SkylineProduct.h
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./unsupported/Eigen/src/Skyline/SkylineMatrix.h
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./Eigen/src/Core/products/GeneralMatrixMatrixTriangular_MKL.h
./Eigen/src/Core/products/GeneralMatrixMatrixTriangular_MKL.h
./Eigen/src/Core/products/TriangularSolverMatrix_MKL.h
./Eigen/src/Core/products/TriangularSolverMatrix_MKL.h

./Eigen/src/Core/util/MKL_support.h
./Eigen/src/Core/util/MKL_support.h
./Eigen/src/Cholesky/LLT_MKL.h
./Eigen/src/Cholesky/LLT_MKL.h

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1.27 ncurses 6.4

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.11 2022/01/01 11:47:50 tom Exp $
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1.28 setserial 2.17

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Found in path(s):
* /matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/setserial.8.in
* /matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/setserial.8
No license file was found, but licenses were detected in source scan.

/*
* 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):

* /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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*/

Found in path(s):
* /matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/linux/serial.h

1.29 sysv-init 2.78

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/*
* utmpdump Simple program to dump UTMP and WTMP files in
* raw format, so they can be examined.
*
* Author: Miquel van Smoorenburg, <miquels@cistron.nl>
* Danek Duvall <duvall@alumni.princeton.edu>
* Date: 20-Dec-1998
* Version: 2.0
*
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*/

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/utmpdump.c
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--- sysvinit-2.78/src/last.c.orig Sun May 27 18:51:14 2001
+++ sysvinit-2.78/src/last.c Wed Jun 13 22:04:25 2001

```
@@ -15,6 +15,10 @@
 *  modify it under the terms of the GNU General Public License
 *  as published by the Free Software Foundation; either version
 *  2 of the License, or (at your option) any later version.
+ *
+ * Modified: 29 May 2001 Chris Wolf:
+ *  Indicate entries without logout records, as gone, instead
+ *  of logged in.
 */

#include <sys/types.h>
@@ -60,6 +64,7 @@
#define R_NORMAL 3 /* Normal */
#define R_NOW  4 /* Still logged in */
#define R_REBOOT 5 /* Reboot record. */
+#define R_PHANTOM 6 /* gone without logout record. */

/* Global variables */
int maxrecs = 0; /* Maximum number of records to list. */
@@ -389,6 +394,11 @@
   sprintf(logouttime, "  still");
   sprintf(length, "logged in");
   break;
+  case R_PHANTOM:
+   length[0] = 0;
+   sprintf(logouttime, "  gone");
+   sprintf(length,
+ "- no logout");
+   break;
  case R_REBOOT:
   logouttime[0] = 0;      /* Print machine uptime */
   break;
@@ -690,21 +701,28 @@
       R_NORMAL);
      c = 1;
     }
+
    if (p->next) p->next->prev = p->prev;
    if (p->prev)
     p->prev->next = p->next;
    else
     utmplist = p->next;
+
    free(p);
   }
  }
  /*
-  * Not found? Then crashed, down
```

```
-    * or still logged in
+    * Not found? Then crashed, down, still logged in,
+    * or just missing logout record.
     */
    if (c == 0) {
-    if (lastboot == 0)
-     quit = list(&ut, time(NULL), R_NOW);
+    if (lastboot == 0) {
+     /* check for process existence to see if really still logged in */
+     if (kill(ut.ut_pid, 0) && errno == ESRCH)
+      quit = list(&ut, time(NULL), R_PHANTOM);
+     else
+      quit = list(&ut, time(NULL), R_NOW);
+    }
     else
      quit = list(&ut, lastboot, whydown);
    }
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78-lastgone.patch
No license file was found, but licenses were detected in source scan.

```
/*
* runlevel Prints out the previous and the current runlevel.
*
* Version: @(#)runlevel  1.20  16-Apr-1997  MvS
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1997 Miquel van Smoorenburg.
*
*  This program is free software; you can redistribute it and/or
*  modify it under the terms of the GNU General Public License
*  as published by the Free Software Foundation; either version
*  2 of the License, or (at your option) any later version.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/runlevel.c
No license file was found, but licenses were detected in source scan.

```
/*
* powerd Monitor the DCD line of a serial port connected to
*  an UPS. If the power goes down, notify init.
*  If the power comes up again, notify init again.
*  As long as the power is OK, the DCD line should be
*  "HIGH". When the power fails, DCD should go "LOW".
*  Powerd keeps DTR high so that you can connect
```

```
*  DCD and DTR with a resistor of 10 Kilo Ohm and let the
*  UPS or some relais pull the DCD line to ground.
*  You also need to connect DTR and DSR together. This
*  way, powerd can check now and then if DSR is high
*  so it knows the UPS is connected!!
*
* Usage: powerd /dev/cua4 (or any other serial device).
*
* Author: Miquel van Smoorenburg, <miquels@drinkel.cistron.nl>.
*
* Version: 1.31,  29-Feb-1996.
*
*  This program was originally written for my employer,
*   ** Cistron Electronics **
*  who has given kind permission to release this program
*  for general puppose.
*
*  Copyright
 1991-1996 Cistron Electronics.
*
*  This program is free software; you can redistribute it and/or
*  modify it under the terms of the GNU General Public License
*  as published by the Free Software Foundation; either version
*  2 of the License, or (at your option) any later version.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/obsolete/powerd.c
No license file was found, but licenses were detected in source scan.

```
/*
* 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>,
* public domain.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/contrib/start-stop-daemon.c
No license file was found, but licenses were detected in source scan.

```
/*
* mesg.c The "mesg" utility. Gives / restrict access to
*  your terminal by others.
*
```

```
* Usage: mesg [y|n].
*  Without arguments prints out the current settings.
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1998 Miquel van Smoorenburg.
*
*  This program is free software; you can redistribute it and/or
*  modify it under the terms of the GNU General Public License
*  as published by the Free Software Foundation; either version
*  2 of the License, or (at your option) any later version.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/mesg.c
No license file was found, but licenses were detected in source scan.

```
/*
* Halt  Stop the system running.
*  It re-enables CTRL-ALT-DEL, so that a hard reboot can
*  be done. If called as reboot, it will reboot the system.
*
*  If the system is not in runlevel 0 or 6, halt will just
*  execute a "shutdown -h" to halt the system, and reboot will
*  execute an "shutdown -r". This is for compatibility with
*  sysvinit 2.4.
*
* Usage: halt [-n] [-w] [-d] [-f] [-p]
*  -n: don't sync before halting the system
*  -w: only write a wtmp reboot record and exit.
*  -d: don't write a wtmp record.
*  -f: force halt/reboot, don't call shutdown.
*  -p: power down the system (if possible, otherwise halt)
*
*  Reboot and halt are both this program. Reboot
*  is just a link to halt. Invoking the program
*  as poweroff implies the -p option.
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: 2.74,  24-Feb-1998
*
*  This file is part of the sysvinit suite,
*  Copyright
 1991-1998 Miquel van Smoorenburg.
*
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*  modify it under the terms of the GNU General Public License
```

* as published by the Free Software Foundation; either version
* 2 of the License, or (at your option) any later version.
*/

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/halt.c
No license file was found, but licenses were detected in source scan.

This is the Debian GNU/Linux prepackaged version of System V Init. Init
was written by Miquel van Smoorenburg <miquels@drinkel.cistron.nl>.

This package was put together by Bruce Perens <Bruce@Pixar.com> from pre-
distribution sources. Ian Murdock <imurdock@debian.org> integrated it into
the base system maintained it until the end of 1995. Miquel van Smoorenburg
<miquels@cistron.nl> has integrated debian support into the base package.

Changes:
29-January-1995 Bruce Perens <Bruce@Pixar.com>
 Added Debian GNU/Linux package maintenance system files.
25-February-1995 Ian Murdock <imurdock@debian.org>
 Finished integration of Sys V Init into the base system.
28-December-1995 Miquel van Smoorenburg <miquels@cistron.nl>
 Added debian support to sysvinit.
 For further changes see the ChangeLog file.

Init is Copyright (C) Miquel van Smoorenburg

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  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; version 2 dated June, 1991.

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  GNU General Public License for more details.

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  along with this program; if not, write to the Free Software
  Foundation, Inc., 675 Mass Ave., Cambridge, MA 02139, USA.

On Debian GNU/Linux systems, the complete text of the GNU General
Public License can be found in `/usr/doc/copyright/GPL'.

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/debian/README

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

README for the System V style init, version 2.78

init, shutdown, halt, reboot, wall, last, mesg, runlevel,
killall5, pidof, sulogin.

All programs, files and scripts in this package are covered by
the Gnu Public License, and copyrighted by me.

If you are not using Debian and the debianzed package,
you will have to install the new init by hand. You should
be able to drop the binaries into a Slackware 3.x or Redhat 4.x
system, I think.

Here is a list of preferred directories to install the progs & manpages:

wall.1, last.1, mesg.1 /usr/man/man1
inittab.5, initscript.5 /usr/man/man5
init.8, halt.8, reboot.8,
shutdown.8, powerd.8,
killall5.8, pidof.8,
runlevel.8, sulogin.8 /usr/man/man8

init /sbin/init
inittab /etc/inittab
initscript.sample /etc/initscript.sample
telinit a link (with ln(1)) to init, either
  in /bin or in /sbin.
halt /sbin/halt
reboot a link to /sbin/halt
 in the same directory
killall5 /sbin/killall5
pidof a link to /sbin/killall5 in the same directory.
runlevel /sbin/runlevel
shutdown /sbin/shutdown.
wall /usr/bin/wall
mesg /usr/bin/mesg
last /usr/bin/last
sulogin /sbin/sulogin
bootlogd /sbin/bootlogd
utmpdump don't install, it's just a debug thingy.

If you already _have_ a "wall" in /bin (the SLS release has, for example)
do _not_ install this wall. Chances are that the wall you are already
using is linked to /bin/write. Either first _remove_ /bin/wall before
installing the new one, or don't install the new one at all.

You might want to create a file called "/etc/shutdown.allow". Read the
manual page on shutdown to find out more about this.

Running from a read-only file system (CDROM?):
o All communication to init goes through the FIFO /dev/initctl.
 There should be no problem using a read-only root file system
 IF you use a Linux kernel > 1.3.66. Older kernels don't
 allow
 writing to a FIFO on a read-only file system.

Miquel van Smoorenburg <miquels@cistron.nl>

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/doc/Install
No license file was found, but licenses were detected in source scan.

```
/*
* Init  A System-V Init Clone.
*
* Usage: /sbin/init
*        init [0123456SsQqAaBbCc]
*    telinit [0123456SsQqAaBbCc]
*
* Version: @(#)init.c  2.78  11-Feb-2000  miquels@cistron.nl
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-2000 Miquel van Smoorenburg.
*
*  This program is free software; you can redistribute it and/or
*  modify it under the terms of the GNU General Public License
*  as published by the Free Software Foundation; either version
*  2 of the License, or (at your option) any later version.
*
* Modified: 21 Feb 1998, Al Viro:
*  'U' flag added to telinit. It forces init to re-exec itself
*  (passing its state through exec, certainly).
*  May be useful for smoother (heh) upgrades.
*  24 Feb 1998, AV:
*  did_boot made global and added to state - thanks, Miquel.
*  Yet another file descriptors leak - close state pipe if
*  re_exec fails.
*/
```

Found in path(s):
*
 /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/init.c

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

```
/*
* shutdown.c Shut the system down.
*
* Usage: shutdown [-krhfnc] time [warning message]
*    -k: don't really shutdown, only warn.
*    -r: reboot after shutdown.
*    -h: halt after shutdown.
*    -f: do a 'fast' reboot (skip fsck).
*    -F: Force fsck on reboot.
*    -n: do not go through init but do it ourselves.
*    -c: cancel an already running shutdown.
*    -t secs: delay between SIGTERM and SIGKILL for init.
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: @(#)shutdown  2.78  13-Nov-1999  miquels@cistron.nl
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1999 Miquel van Smoorenburg.
*
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*  modify it under the terms of the GNU General Public License
*  as published by the Free Software Foundation; either version
*  2 of the License, or (at your option) any later version.
*/
```

Found in path(s):

*

/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/shutdown.c

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

```
/*
* last.c Re-implementation of the 'last' command, this time
*  for Linux. Yes I know there is BSD last, but I
*  just felt like writing this. No thanks :-).
*  Also, this version gives lots more info (especially with -x)
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: @(#)last  2.78  24-Nov-1999  miquels@cistron.nl
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1999 Miquel van Smoorenburg.
*
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```

* modify it under the terms of the GNU General Public License
* as published by the Free Software Foundation; either version
* 2 of the License, or (at your option) any later version.
*/

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/last.c
No license file was found, but licenses were detected in source scan.

/*
* kilall5.c Kill all processes except processes that have the
* same session id, so that the shell that called us
* won't be killed. Typically used in shutdown scripts.
*
* pidof.c Tries to get the pid of the process[es] named.
*
* Version: 2.30 03-Jul-1996 rhm MvS
*
* Usage: killall5 [-][signal]
* pidof [-s] [-o omitpid [-o omitpid]] program [program..]
*
* Authors: Miquel van Smoorenburg, miquels@drinkel.cistron.nl
*
* Riku Meskanen, <mesrik@jyu.fi>
* - return all running pids of given program name
* - single shot '-s' option for backwards combatibility
* - omit pid '-o' option and %PPID (parent pid metavariable)
* - syslog() only if not a connected to controlling terminal
* - swapped out programs pids are caught now
*
* This file is part of the sysvinit suite,
* Copyright 1991-1996 Miquel van Smoorenburg.
*
* This program is free software; you can redistribute it and/or
* modify
 it under the terms of the GNU General Public License
* as published by the Free Software Foundation; either version
* 2 of the License, or (at your option) any later version.
*/

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/killall5.c
No license file was found, but licenses were detected in source scan.

/*
* paths.h Paths of files that init and related utilities need.

```
*
* Version: @(#) paths.h 1.71 28-Dec-1995
*
* Author: Miquel van Smoorenburg, <miquels@cistron.nl>
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1997 Miquel van Smoorenburg.
*
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*  modify it under the terms of the GNU General Public License
*  as published by the Free Software Foundation; either version
*  2 of the License, or (at your option) any later version.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/paths.h
No license file was found, but licenses were detected in source scan.

Start-stop-daemon is the program that is used by the DEBIAN style init
scripts to start and stop services. This program is part of the "dpkg"
package by Ian Jackson. However there is also a seperate C version (the
original is in perl) available written by Marek Michalkiewicz. I'm including
it for your convinience.

Note that the latest debian dpkg packages (4.0.18 and later) contain
a much improved update-rc.d. This code is almost a year old.

The original announcement follows:

From: Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>
Message-Id: <199606060324.FAA19493@i17linuxb.ists.pwr.wroc.pl>
Subject: Fast start-stop-daemon in C
To: debian-devel@lists.debian.org
Date: Thu, 6 Jun 1996 05:24:18 +0200 (MET DST)

Some time ago I wrote a faster C replacement for the start-stop-daemon
perl script. I use it for some time now (the most recent changes were
just a nicer help screen; the code is quite stable).

This
 makes the system boot faster (especially on low end machines),
and important system startup scripts no longer depend on another big
package (perl). Maybe in the future we can get to the point where
a minimal system will work without perl installed at all (packages
which need it in {pre,post}{inst,rm} scripts would depend on perl).

The only problem known so far to me is that I have to reinstall this
program after every dpkg upgrade which overwrites it with that nice
slooow perl script :-).

Just compile this program and drop the binary in /usr/sbin instead
of the original /usr/sbin/start-stop-daemon perl script (make a copy
of it first, just in case). See below for source code. I placed it
in the public domain, but if it has to be GPL-ed to be included in
dpkg, just tell me. Including it in dpkg would close Bug#1670.

I am posting it here so that it can be tested by more people than
just me. Bugs are unlikely though.

Have fun,

Marek

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/contrib/start-stop-daemon.README
No license file was found, but licenses were detected in source scan.

```
/*
* utmpdump Simple program to dump UTMP and WTMP files in
*  raw format, so they can be examined.
*
* Version: @(#)utmpdump.c  13-Aug-1996  1.00  miquels@cistron.nl
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1996 Miquel van Smoorenburg.
*
*  This program is free software; you can redistribute it and/or
*  modify it under the terms of the GNU General Public License
*  as published by the Free Software Foundation; either version
*  2 of the License, or (at your option) any later version.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/obsolete/utmpdump.c.OLD
No license file was found, but licenses were detected in source scan.

```
--- sysvinit-2.77/src/md5.c.be Fri Aug 20 14:05:19 1999
+++ sysvinit-2.77/src/md5.c Sat Jul 24 02:13:39 1999
@@ -0,0 +1,256 @@
+/*
+ * $Id: md5.c,v 1.1.1.2 1999/07/24 00:13:39 gafton Exp $
+ *
```

```
+ * This code implements the MD5 message-digest algorithm.
+ * The algorithm is due to Ron Rivest.  This code was
+ * written by Colin Plumb in 1993, no copyright is claimed.
+ * This code is in the public domain; do with it what you wish.
+ *
+ * Equivalent code is available from RSA Data Security, Inc.
+ * This code has been tested against that, and is equivalent,
+ * except that you don't need to include two pages of legalese
+ * with every copy.
+ *
+ * To compute the message digest of a chunk of bytes, declare an
+ * MD5Context structure, pass it to MD5Init, call MD5Update as
+ * needed on buffers full of bytes, and then call MD5Final, which
+ * will fill a supplied 16-byte array with the digest.
+ *
+ */
+
+#include <string.h>
+#include
 "md5.h"
+
+#ifndef HIGHFIRST
+#define byteReverse(buf, len) /* Nothing */
+#else
+static void byteReverse(unsigned char *buf, unsigned longs);
+
+#ifndef ASM_MD5
+/*
+ * Note: this code is harmless on little-endian machines.
+ */
+static void byteReverse(unsigned char *buf, unsigned longs)
+{
+ uint32 t;
+ do {
+  t = (uint32) ((unsigned) buf[3] << 8 | buf[2]) << 16 |
+      ((unsigned) buf[1] << 8 | buf[0]);
+  *(uint32 *) buf = t;
+  buf += 4;
+ } while (--longs);
+}
+#endif
+#endif
+
+/*
+ * Start MD5 accumulation.  Set bit count to 0 and buffer to mysterious
+ * initialization constants.
+ */
+void MD5Name(MD5Init)(struct MD5Context *ctx)
```

```
+{
+ ctx->buf[0] = 0x67452301U;
+ ctx->buf[1] = 0xefcdab89U;
+ ctx->buf[2] = 0x98badcfeU;
+ ctx->buf[3] = 0x10325476U;
+
+ ctx->bits[0] = 0;
+ ctx->bits[1] = 0;
+}
+
+/*
+ * Update context to reflect the concatenation of another buffer full
+ * of bytes.
+ */
+void MD5Name(MD5Update)(struct MD5Context *ctx, unsigned const char *buf,
 unsigned len)
+{
+ uint32 t;
+
+ /* Update bitcount */
+
+ t = ctx->bits[0];
+ if ((ctx->bits[0] = t + ((uint32) len << 3)) < t)
+  ctx->bits[1]++; /* Carry from low to high */
+ ctx->bits[1] += len >> 29;
+
+ t = (t >> 3) & 0x3f; /* Bytes already in shsInfo->data */
+
+ /* Handle any leading odd-sized chunks */
+
+ if (t) {
+  unsigned char *p = (unsigned char *) ctx->in + t;
+
+  t = 64 - t;
+  if (len < t) {
+   memcpy(p, buf, len);
+   return;
+  }
+  memcpy(p, buf, t);
+  byteReverse(ctx->in, 16);
+  MD5Name(MD5Transform)(ctx->buf, (uint32 *) ctx->in);
+  buf += t;
+  len -= t;
+ }
+ /* Process data in 64-byte chunks */
+
+ while (len >= 64) {
+  memcpy(ctx->in, buf, 64);
```

```
+  byteReverse(ctx->in, 16);
+  MD5Name(MD5Transform)(ctx->buf, (uint32 *) ctx->in);
+  buf += 64;
+  len -= 64;
+ }
+
+ /* Handle any remaining bytes of data. */
+
+ memcpy(ctx->in, buf, len);
+}
+
+/*
+ * Final wrapup - pad to 64-byte boundary with the bit pattern
+ * 1 0* (64-bit count of bits processed, MSB-first)
+
 */
+void MD5Name(MD5Final)(unsigned char digest[16], struct MD5Context *ctx)
+{
+ unsigned count;
+ unsigned char *p;
+
+ /* Compute number of bytes mod 64 */
+ count = (ctx->bits[0] >> 3) & 0x3F;
+
+ /* Set the first char of padding to 0x80.  This is safe since there is
+    always at least one byte free */
+ p = ctx->in + count;
+ *p++ = 0x80;
+
+ /* Bytes of padding needed to make 64 bytes */
+ count = 64 - 1 - count;
+
+ /* Pad out to 56 mod 64 */
+ if (count < 8) {
+  /* Two lots of padding:  Pad the first block to 64 bytes */
+  memset(p, 0, count);
+  byteReverse(ctx->in, 16);
+  MD5Name(MD5Transform)(ctx->buf, (uint32 *) ctx->in);
+
+  /* Now fill the next block with 56 bytes */
+  memset(ctx->in, 0, 56);
+ } else {
+  /* Pad block to 56 bytes */
+  memset(p, 0, count - 8);
+ }
+ byteReverse(ctx->in, 14);
+
+ /* Append length in bits and transform */
```

```
+ ((uint32 *) ctx->in)[14] = ctx->bits[0];
+ ((uint32 *) ctx->in)[15] = ctx->bits[1];
+
+ MD5Name(MD5Transform)(ctx->buf,
 (uint32 *) ctx->in);
+ byteReverse((unsigned char *) ctx->buf, 4);
+ memcpy(digest, ctx->buf, 16);
+ memset(ctx, 0, sizeof(ctx)); /* In case it's sensitive */
+}
+
+#ifndef ASM_MD5
+
+/* The four core functions - F1 is optimized somewhat */
+
+/* #define F1(x, y, z) (x & y | ~x & z) */
+#define F1(x, y, z) (z ^ (x & (y ^ z)))
+#define F2(x, y, z) F1(z, x, y)
+#define F3(x, y, z) (x ^ y ^ z)
+#define F4(x, y, z) (y ^ (x | ~z))
+
+/* This is the central step in the MD5 algorithm. */
+#define MD5STEP(f, w, x, y, z, data, s) \
+ ( w += f(x, y, z) + data,  w = w<<s | w>>(32-s),  w += x )
+
+/*
+ * The core of the MD5 algorithm, this alters an existing MD5 hash to
+ * reflect the addition of 16 longwords of new data.  MD5Update blocks
+ * the data and converts bytes into longwords for this routine.
+ */
+void MD5Name(MD5Transform)(uint32 buf[4], uint32 const in[16])
+{
+ register uint32 a, b, c, d;
+
+ a = buf[0];
+ b = buf[1];
+ c = buf[2];
+ d = buf[3];
+
+ MD5STEP(F1, a, b, c, d, in[0]
  + 0xd76aa478U, 7);
+ MD5STEP(F1, d, a, b, c, in[1] + 0xe8c7b756U, 12);
+ MD5STEP(F1, c, d, a, b, in[2] + 0x242070dbU, 17);
+ MD5STEP(F1, b, c, d, a, in[3] + 0xc1bdceeeU, 22);
+ MD5STEP(F1, a, b, c, d, in[4] + 0xf57c0fafU, 7);
+ MD5STEP(F1, d, a, b, c, in[5] + 0x4787c62aU, 12);
+ MD5STEP(F1, c, d, a, b, in[6] + 0xa8304613U, 17);
+ MD5STEP(F1, b, c, d, a, in[7] + 0xfd469501U, 22);
+ MD5STEP(F1, a, b, c, d, in[8] + 0x698098d8U, 7);
```

```
+ MD5STEP(F1, d, a, b, c, in[9] + 0x8b44f7afU, 12);
+ MD5STEP(F1, c, d, a, b, in[10] + 0xffff5bb1U, 17);
+ MD5STEP(F1, b, c, d, a, in[11] + 0x895cd7beU, 22);
+ MD5STEP(F1, a, b, c, d, in[12] + 0x6b901122U, 7);
+ MD5STEP(F1, d, a, b, c, in[13] + 0xfd987193U, 12);
+ MD5STEP(F1, c, d, a, b, in[14] + 0xa679438eU, 17);
+ MD5STEP(F1, b, c, d, a, in[15] + 0x49b40821U, 22);
+
+ MD5STEP(F2, a, b, c, d, in[1] + 0xf61e2562U, 5);
+ MD5STEP(F2, d, a, b, c, in[6] + 0xc040b340U, 9);
+ MD5STEP(F2, c, d, a, b, in[11] + 0x265e5a51U, 14);
+ MD5STEP(F2, b, c, d, a, in[0] + 0xe9b6c7aaU,
 20);
+ MD5STEP(F2, a, b, c, d, in[5] + 0xd62f105dU, 5);
+ MD5STEP(F2, d, a, b, c, in[10] + 0x02441453U, 9);
+ MD5STEP(F2, c, d, a, b, in[15] + 0xd8a1e681U, 14);
+ MD5STEP(F2, b, c, d, a, in[4] + 0xe7d3fbc8U, 20);
+ MD5STEP(F2, a, b, c, d, in[9] + 0x21e1cde6U, 5);
+ MD5STEP(F2, d, a, b, c, in[14] + 0xc33707d6U, 9);
+ MD5STEP(F2, c, d, a, b, in[3] + 0xf4d50d87U, 14);
+ MD5STEP(F2, b, c, d, a, in[8] + 0x455a14edU, 20);
+ MD5STEP(F2, a, b, c, d, in[13] + 0xa9e3e905U, 5);
+ MD5STEP(F2, d, a, b, c, in[2] + 0xfcefa3f8U, 9);
+ MD5STEP(F2, c, d, a, b, in[7] + 0x676f02d9U, 14);
+ MD5STEP(F2, b, c, d, a, in[12] + 0x8d2a4c8aU, 20);
+
+ MD5STEP(F3, a, b, c, d, in[5] + 0xfffa3942U, 4);
+ MD5STEP(F3, d, a, b, c, in[8] + 0x8771f681U, 11);
+ MD5STEP(F3, c, d, a, b, in[11] + 0x6d9d6122U, 16);
+ MD5STEP(F3, b, c, d, a, in[14] + 0xfde5380cU, 23);
+ MD5STEP(F3, a, b, c, d, in[1] + 0xa4beea44U, 4);
+ MD5STEP(F3, d, a, b, c, in[4] + 0x4bdecfa9U, 11);
+ MD5STEP(F3, c, d, a, b, in[7] + 0xf6bb4b60U, 16);
+ MD5STEP(F3,
 b, c, d, a, in[10] + 0xbebfbc70U, 23);
+ MD5STEP(F3, a, b, c, d, in[13] + 0x289b7ec6U, 4);
+ MD5STEP(F3, d, a, b, c, in[0] + 0xeaa127faU, 11);
+ MD5STEP(F3, c, d, a, b, in[3] + 0xd4ef3085U, 16);
+ MD5STEP(F3, b, c, d, a, in[6] + 0x04881d05U, 23);
+ MD5STEP(F3, a, b, c, d, in[9] + 0xd9d4d039U, 4);
+ MD5STEP(F3, d, a, b, c, in[12] + 0xe6db99e5U, 11);
+ MD5STEP(F3, c, d, a, b, in[15] + 0x1fa27cf8U, 16);
+ MD5STEP(F3, b, c, d, a, in[2] + 0xc4ac5665U, 23);
+
+ MD5STEP(F4, a, b, c, d, in[0] + 0xf4292244U, 6);
+ MD5STEP(F4, d, a, b, c, in[7] + 0x432aff97U, 10);
+ MD5STEP(F4, c, d, a, b, in[14] + 0xab9423a7U, 15);
+ MD5STEP(F4, b, c, d, a, in[5] + 0xfc93a039U, 21);
```

```
+ MD5STEP(F4, a, b, c, d, in[12] + 0x655b59c3U, 6);
+ MD5STEP(F4, d, a, b, c, in[3] + 0x8f0ccc92U, 10);
+ MD5STEP(F4, c, d, a, b, in[10] + 0xffeff47dU, 15);
+ MD5STEP(F4, b, c, d, a, in[1] + 0x85845dd1U, 21);
+ MD5STEP(F4, a, b, c, d, in[8] + 0x6fa87e4fU, 6);
+ MD5STEP(F4, d, a, b, c, in[15] + 0xfe2ce6e0U, 10);
+ MD5STEP(F4,
 c, d, a, b, in[6] + 0xa3014314U, 15);
+ MD5STEP(F4, b, c, d, a, in[13] + 0x4e0811a1U, 21);
+ MD5STEP(F4, a, b, c, d, in[4] + 0xf7537e82U, 6);
+ MD5STEP(F4, d, a, b, c, in[11] + 0xbd3af235U, 10);
+ MD5STEP(F4, c, d, a, b, in[2] + 0x2ad7d2bbU, 15);
+ MD5STEP(F4, b, c, d, a, in[9] + 0xeb86d391U, 21);
+
+ buf[0] += a;
+ buf[1] += b;
+ buf[2] += c;
+ buf[3] += d;
+}
+
+#endif
--- sysvinit-2.77/src/md5.h.be Fri Aug 20 14:05:22 1999
+++ sysvinit-2.77/src/md5.h Fri Aug 20 13:54:09 1999
@@ -0,0 +1,40 @@
+#ifndef MD5_H
+#define MD5_H
+
+#include <features.h>
+#if defined(__GLIBC__) && __GLIBC__ > 1
+# include <stdint.h>
+typedef uint32_t uint32;
+#else
+# ifdef __alpha
+typedef unsigned int uint32;
+# else
+typedef unsigned long uint32;
+# endif
+#endif
+
+struct MD5Context {
+    uint32 buf[4];
+    uint32 bits[2];
+    unsigned char in[64];
+};
+
+void GoodMD5Init(struct MD5Context *);
+void GoodMD5Update(struct MD5Context *, unsigned const char *, unsigned);
+void GoodMD5Final(unsigned
```

```
 char digest[16], struct MD5Context *);
+void GoodMD5Transform(uint32 buf[4], uint32 const in[16]);
+void BrokenMD5Init(struct MD5Context *);
+void BrokenMD5Update(struct MD5Context *, unsigned const char *, unsigned);
+void BrokenMD5Final(unsigned char digest[16], struct MD5Context *);
+void BrokenMD5Transform(uint32 buf[4], uint32 const in[16]);
+
+char *Goodcrypt_md5(const char *pw, const char *salt);
+char *Brokencrypt_md5(const char *pw, const char *salt);
+
+/*
+* This is needed to make RSAREF happy on some MS-DOS compilers.
+*/
+
+typedef struct MD5Context MD5_CTX;
+
+#endif /* MD5_H */
--- sysvinit-2.77/src/md5_crypt.c.be Fri Aug 20 14:05:25 1999
+++ sysvinit-2.77/src/md5_crypt.c Sat Jul 24 02:13:39 1999
@@ -0,0 +1,149 @@
+/*
+ * $Id: md5_crypt.c,v 1.1.1.1 1999/07/24 00:13:39 gafton Exp $
+ *
+ * ----------------------------------------------------------------------------
+ * "THE BEER-WARE LICENSE" (Revision 42):
+ * <phk@login.dknet.dk> wrote this file.  As long as you retain
 this notice you
+ * can do whatever you want with this stuff. If we meet some day, and you think
+ * this stuff is worth it, you can buy me a beer in return.   Poul-Henning Kamp
+ * ----------------------------------------------------------------------------
+ *
+ * Origin: Id: crypt.c,v 1.3 1995/05/30 05:42:22 rgrimes Exp
+ *
+ */
+
+#include <string.h>
+#include "md5.h"
+
+static unsigned char itoa64[] = /* 0 ... 63 => ascii - 64 */
+"./0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
+
+static void to64(char *s, unsigned long v, int n)
+{
+ while (--n >= 0) {
+  *s++ = itoa64[v & 0x3f];
+  v >>= 6;
+ }
+}
```

```
+
+/*
+ * UNIX password
+ *
+ * Use MD5 for what it is best at...
+ */
+
+char *MD5Name(crypt_md5)(const char *pw, const char *salt)
+{
+ const char *magic = "$1$";
+ /* This string is magic for this algorithm.  Having
+  * it this way, we can get get better later on */
+ static char passwd[120], *p;
+ static const char *sp, *ep;
+ unsigned char final[16];
+ int
 sl, pl, i, j;
+ MD5_CTX ctx, ctx1;
+ unsigned long l;
+
+ /* Refine the Salt first */
+ sp = salt;
+
+ /* If it starts with the magic string, then skip that */
+ if (!strncmp(sp, magic, strlen(magic)))
+  sp += strlen(magic);
+
+ /* It stops at the first '$', max 8 chars */
+ for (ep = sp; *ep && *ep != '$' && ep < (sp + 8); ep++)
+  continue;
+
+ /* get the length of the true salt */
+ sl = ep - sp;
+
+ MD5Name(MD5Init)(&ctx);
+
+ /* The password first, since that is what is most unknown */
+ MD5Name(MD5Update)(&ctx,(unsigned const char *)pw,strlen(pw));
+
+ /* Then our magic string */
+ MD5Name(MD5Update)(&ctx,(unsigned const char *)magic,strlen(magic));
+
+ /* Then the raw salt */
+ MD5Name(MD5Update)(&ctx,(unsigned const char *)sp,sl);
+
+ /* Then just as many characters of the MD5(pw,salt,pw) */
+ MD5Name(MD5Init)(&ctx1);
+ MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
```

```
+ MD5Name(MD5Update)(&ctx1,(unsigned const char *)sp,sl);
+ MD5Name(MD5Update)(&ctx1,(unsigned
 const char *)pw,strlen(pw));
+ MD5Name(MD5Final)(final,&ctx1);
+ for (pl = strlen(pw); pl > 0; pl -= 16)
+  MD5Name(MD5Update)(&ctx,(unsigned const char *)final,pl>16 ? 16 : pl);
+
+ /* Don't leave anything around in vm they could use. */
+ memset(final, 0, sizeof final);
+
+ /* Then something really weird... */
+ for (j = 0, i = strlen(pw); i; i >>= 1)
+  if (i & 1)
+   MD5Name(MD5Update)(&ctx, (unsigned const char *)final+j, 1);
+  else
+   MD5Name(MD5Update)(&ctx, (unsigned const char *)pw+j, 1);
+
+ /* Now make the output string */
+ strcpy(passwd, magic);
+ strncat(passwd, sp, sl);
+ strcat(passwd, "$");
+
+ MD5Name(MD5Final)(final,&ctx);
+
+ /*
+  * and now, just to make sure things don't run too fast
+  * On a 60 Mhz Pentium this takes 34 msec, so you would
+  * need 30 seconds to build a 1000 entry dictionary...
+  */
+ for (i = 0; i < 1000; i++) {
+  MD5Name(MD5Init)(&ctx1);
+  if (i & 1)
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+  else
+   MD5Name(MD5Update)(&ctx1,(unsigned
 const char *)final,16);
+
+  if (i % 3)
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)sp,sl);
+
+  if (i % 7)
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+
+  if (i & 1)
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)final,16);
+  else
+   MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+  MD5Name(MD5Final)(final,&ctx1);
```

```
+ }
+
+ p = passwd + strlen(passwd);
+
+ l = (final[0] << 16) | (final[6] << 8) | final[12];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[1] << 16) | (final[7] << 8) | final[13];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[2] << 16) | (final[8] << 8) | final[14];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[3] << 16) | (final[9] << 8) | final[15];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[4] << 16) | (final[10] << 8) | final[5];
+ to64(p, l, 4);
+ p += 4;
+ l = final[11];
+ to64(p, l, 2);
+ p += 2;
+ *p = '\0';
+
+ /* Don't leave anything around in vm they could use. */
+ memset(final, 0, sizeof final);
+
+ return
  passwd;
+}
--- sysvinit-2.77/src/Makefile.be Fri Aug 20 12:05:26 1999
+++ sysvinit-2.77/src/Makefile Fri Aug 20 14:20:42 1999
@@ -50,8 +50,8 @@ utmpdump: utmpdump.o
runlevel: runlevel.o
  $(CC) $(LDFLAGS) -o $@ runlevel.o

-sulogin: sulogin.o
-  $(CC) $(LDFLAGS) $(STATIC) -o $@ sulogin.o $(LCRYPT)
+sulogin: sulogin.o md5_broken.o md5_crypt_broken.o
+  $(CC) $(LDFLAGS) $(STATIC) -o $@ $^ $(LCRYPT)

wall:  dowall.o wall.o
  $(CC) $(LDFLAGS) -o $@ dowall.o wall.o
@@ -67,6 +67,12 @@ utmp.o:  utmp.c init.h

init_utmp.o: utmp.c init.h
  $(CC) -c $(CFLAGS) -DINIT_MAIN utmp.c -o init_utmp.o
+
```

```
+md5_broken.o: md5.c
+	$(CC) $(CFLAGS) -D'MD5Name(x)=Broken##x' -c $< -o $@
+
+md5_crypt_broken.o: md5_crypt.c
+	$(CC) $(CFLAGS) -D'MD5Name(x)=Broken##x' -c $< -o $@

cleanobjs:
	rm -f *.o *.bak
--- sysvinit-2.77/src/sulogin.c.be Fri Aug 20 12:05:26 1999
+++ sysvinit-2.77/src/sulogin.c Fri Aug 20 14:20:09 1999
@@ -29,6 +29,7 @@
#if defined(__GLIBC__)
#  include <crypt.h>
#endif
+#include
 "md5.h"

#define CHECK_DES 1
#define CHECK_MD5 1
@@ -392,7 +393,12 @@ int main(int argc, char **argv)
 while(1) {
  if ((p = getpasswd()) == NULL) break;
  if (pwd->pw_passwd[0] == 0 ||
-      strcmp(crypt(p, pwd->pw_passwd), pwd->pw_passwd) == 0)
+      strcmp(crypt(p, pwd->pw_passwd), pwd->pw_passwd) == 0
+#ifdef CHECK_MD5
+      || (strncmp(pwd->pw_passwd, "$1$", 3) == 0 &&
+   strcmp(Brokencrypt_md5(p, pwd->pw_passwd), pwd->pw_passwd) == 0)
+#endif
+      )
    sushell(pwd);
  printf("Login incorrect.\n");
 }
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.77-md5-be.patch
No license file was found, but licenses were detected in source scan.

```
/*
* dowall.c Write to all users on the system.
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: @(#)dowall.c  2.76  19-Apr-1999  miquels@cistron.nl
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1999 Miquel van Smoorenburg.
*
```

```
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*  2 of the License, or (at your option) any later version.
*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/dowall.c
No license file was found, but licenses were detected in source scan.

```
/*
* bootlogd.c Store output from the console during bootup into a file.
*  The file is usually located on the /var partition, and
*  gets written (and fsynced) as soon as possible.
*
* Version: @(#)bootlogd  2.77  24-Aug-1999  miquels@cistron.nl
*
* Bugs: Uses openpty(), only available in glibc. Sorry.
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1999 Miquel van Smoorenburg.
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*/
```

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/bootlogd.c
No license file was found, but licenses were detected in source scan.

```
/*
* wall.c Write to all users logged in.
*
* Usage: wall [text]
*
* Version: @(#)wall  2.75  28-Jul-1998  miquels@cistron.nl
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1998 Miquel van Smoorenburg.
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```

*/

Found in path(s):
* /SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/wall.c

1.30 openssl 1.1.1u

1.30.1 Available under license :

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1.31 libnss-nisplus 2.31

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1.32 libnss-nis 2.31

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1.33 tcpdump 5.255.255

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* Support for SNMPv2c/SNMPv3 and the ability to link the module against
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@(#)snmp.awk.x 1.1 (LANL) 1/15/90
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* @(#)ip.h 8.1 (Berkeley) 6/10/93
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* Starent Networks - 2004
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* @(#) $Header: /tcpdump/master/tcpdump/extract.h,v 1.16 2000/10/03 02:54:55 itojun Exp $ (LBL)
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* @(#) $Header: /tcpdump/master/tcpdump/addrtoname.h,v 1.16 1999/10/30 05:11:07 itojun Exp $ (LBL)
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*
* Hacked version of print-ether.c  Larry Lile <lile@stdio.com>
*
* Further tweaked to more closely resemble print-fddi.c
* Guy Harris <guy@alum.mit.edu>
*/
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*   *
*   *
* File   :   dcsip-decode.h   *
*   *
* Author(s): Debendra Sahu   *

```
*                                                       *
* Description: This file contains DC-SIP stack specific functions for       *
*              decoding the sip message.
               *
*                                                       *
* History:                                                  *
*         July 08, 2010 - Initial Creation.                         *
*                                                       *
*************************************************************************/
```

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```
/* TAG for Proprietary IE - "IMSI" in MAP-CHECK-IMEI operation for TURKCELL */
```

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```
/*Custom16 dictionary is used by Commnet Wireless. The encoding used here is not
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```

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* @(#) $Header: /tcpdump/master/tcpdump/llc.h,v 1.8 2000/12/18 07:55:36 guy Exp $ (LBL)
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* print-bxxp.c
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*
* @(#) $Header: /tcpdump/master/tcpdump/machdep.h,v 1.2 2000/01/17 06:24:24 itojun Exp $ (LBL)
*/

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*
* rstewar1@email.mot.com
* kmorneau@cisco.com
* qxie1@email.mot.com
*
* Any bugs reported given to us we will try to fix... any fixes shared will
* be incorperated into the next SCTP release.
*/

Found in path(s):
* /tcpdump-1-tar-gz/tcpdump/sctpConstants.h
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/* Unrec Params will be decoded as a LList
   * normally these unrec Params are proprietary data passed transparently
   * to the peer user */

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* /tcpdump-1-tar-gz/tcpdump/print-alcap.c

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* @(#)udp.h 8.1 (Berkeley) 6/10/93
*/
```

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* kmorneau@cisco.com
* qxie1@email.mot.com
*
* Any bugs reported given to us we will try to fix... any fixes shared will
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* /tcpdump-1-tar-gz/tcpdump/dhcp6opt.h
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* /tcpdump-1-tar-gz/tcpdump/print-rip.c
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/*
* Definitions that user level programs might need to know to interact
* with serial line IP (slip) lines.
*
* @(#) $Header: /tcpdump/master/tcpdump/slip.h,v 1.1 2000/10/09 01:53:21 guy Exp $
*
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/*
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*
* Kevin Steves <ks@hp.se> July 2000
* Modified to:
* - print version, type string and packet length
* - print IP address count if > 1 (-v)
* - verify checksum (-v)
* - print authentication string (-v)
*
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* Reference documentation:
*   http://www.cisco.com/univercd/cc/td/doc/product/lan/trsrb/frames.htm
*/

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* @(#)timed.h 8.1 (Berkeley) 6/2/93
*/

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/* Note: Proprietary IE -"IMSI" is added as OPTIONAL param ,
   Requested Equipment Info & EXT container are present only in MAP VER3 so set    \
   as OPTIONAL
*/

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*
* @(#) $Header: /tcpdump/master/tcpdump/tcpdump-stdinc.h,v 1.7.2.1 2003/11/16 09:57:50 guy Exp $ (LBL)
*/

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*/

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* @(#) $Header: /tcpdump/master/tcpdump/ethertype.h,v 1.12 2000/09/23 08:03:30 guy Exp $ (LBL)
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*
* Format and print AppleTalk packets.
*/
```

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* @(#) $Header: /tcpdump/master/tcpdump/decnet.h,v 1.7 2000/10/03 02:54:55 itojun Exp $ (LBL)
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* AppleTalk protocol formats (courtesy Bill Croft of Stanford/SUMEX).
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* @(#) $Header: /tcpdump/master/tcpdump/appletalk.h,v 1.13 2000/10/03 02:54:54 itojun Exp $ (LBL)
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* @(#)nfsproto.h 8.2 (Berkeley) 3/30/95
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* Internet, ethernet, port, and protocol string to address
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* /tcpdump-1-tar-gz/tcpdump/print-pppoe.c
* /tcpdump-1-tar-gz/tcpdump/tcpdump.c
* /tcpdump-1-tar-gz/tcpdump/print-tcp.c
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* /tcpdump-1-tar-gz/tcpdump/print-igmp.c
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*/
/*
  * When negotiating ESP without authentication, the Auth
  * Algorithm attribute MUST NOT be included in the proposal.
  * When negotiating ESP without confidentiality, the Auth
  * Algorithm attribute MUST be included in the proposal and
  * the ESP transform ID must be ESP_NULL.
 */
```

Found in path(s):
* /tcpdump-1-tar-gz/tcpdump/ipsec_doi.h
* /tcpdump-1-tar-gz/tcpdump/ipsec_ikev2_doi.h
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*
* Initial contribution from John Hawkinson <jhawk@bbnplanet.com>
 *
* This module implements support for decoding GRE (Generic Routing
* Encapsulation) tunnels; they're documented in RFC1701 and RFC1702.
* This code only supports the IP encapsulation thereof.
*/
```

Found in path(s):
* /tcpdump-1-tar-gz/tcpdump/print-gre.c

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*
* Format and print ntp packets.
* By Jeffrey Mogul/DECWRL
* loosely based on print-bootp.c
*/

Found in path(s):
* /tcpdump-1-tar-gz/tcpdump/print-ntp.c
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* @(#)ip.h 8.2 (Berkeley) 6/1/94
*/

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* /tcpdump-1-tar-gz/tcpdump/strlcat.c
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/tcpdump-1-tar-gz/tcpdump/obj.prodgdb-x86/libtcpdump.a: binary file matches
/tcpdump-1-tar-gz/tcpdump/obj.prodgdb-x86/print-ppp.o: binary file matches
/tcpdump-1-tar-gz/tcpdump/obj.prodgdb-x86/print-radius.o: binary file matches
/tcpdump-1-tar-gz/tcpdump/obj.prodgdb-x86/tcpdump: binary file matches

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* /tcpdump-1-tar-gz/tcpdump/util.c
* /tcpdump-1-tar-gz/tcpdump/print-vjc.c
* /tcpdump-1-tar-gz/tcpdump/print-chdlc.c
* /tcpdump-1-tar-gz/tcpdump/chdlc.h
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*
* @(#) $Header: /tcpdump/master/tcpdump/interface.h,v 1.149 2001/01/02 22:47:06 guy Exp $ (LBL)
*/

Found in path(s):
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* Format and print IEEE 802.1d spanning tree protocol packets.
* Contributed by Lennert Buytenhek <buytenh@gnu.org>
*/

Found in path(s):
* /tcpdump-1-tar-gz/tcpdump/print-stp.c
No license file was found, but licenses were detected in source scan.

"Gandalf proprietary",
"PortMaster(proprietary)",

Found in path(s):
* /tcpdump-1-tar-gz/tcpdump/print-radius.c
No license file was found, but licenses were detected in source scan.

/*
* Definitions for tcp compression routines.
*
* @(#) $Header: /tcpdump/master/tcpdump/slcompress.h,v 1.2 2000/10/09 02:03:44 guy Exp $ (LBL)
*
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* Original code by Hannes Gredler (hannes@juniper.net)
*/

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*                                                *
*                                                *
* File   :    dcsip-decode.c                          *
*                                                *
* Author(s):  Debendra Sahu                              *
*                                                *
* Description: This file contains DC-SIP stack specific functions for      *
*            decoding the sip message.
             *
*                                                *
* History:                                           *
*        July 08, 2010 - Initial Creation.                  *
*                                                *
**********************************************************************************/
```

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* /tcpdump-1-tar-gz/tcpdump/gmt2local.c
* /tcpdump-1-tar-gz/tcpdump/setsignal.c
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/*
	* Move past the unrecognized extension; note that the length field
	* is not always a byte long and our computation may be incorrect in
	* such cases where new or proprietary extensions with length fields
	* of 2 or more bytes are received.
	*/

Found in path(s):
* /tcpdump-1-tar-gz/tcpdump/print-a11.c

1.34 tcpdump 3.0.0

1.34.1 Available under license :

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* /tcpdump-tar-gz/tcpdump/setsignal.c
* /tcpdump-tar-gz/tcpdump/gmt2local.c
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```
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* Definitions for tcp compression routines.
*
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* Original code by Hannes Gredler (hannes@juniper.net)
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*    http://www.cisco.com/univercd/cc/td/doc/product/lan/trsrb/frames.htm
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* /tcpdump-tar-gz/tcpdump/print-smb.c
* /tcpdump-tar-gz/tcpdump/smbutil.c
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*
* Kevin Steves <ks@hp.se> July 2000
* Modified to:
* - print version, type string and packet length
* - print IP address count if > 1 (-v)
* - verify checksum (-v)
* - print authentication string (-v)
*
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/* Unrec Params will be decoded as a LList
   * normally these unrec Params are proprietary data passed transparently
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* @(#) $Header: /tcpdump/master/tcpdump/fddi.h,v 1.9 2000/10/09 02:59:39 guy Exp $ (LBL)
*/

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* @(#) $Header: /tcpdump/master/tcpdump/setsignal.h,v 1.2.1.1 1999/10/07 23:47:13 mcr Exp $ (LBL)
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*
* Internet, ethernet, port, and protocol string to address
* and address to string conversion routines
*/

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* @(#) $Header: /tcpdump/master/tcpdump/gmt2local.h,v 1.2.1.1 1999/10/07 23:47:10 mcr Exp $ (LBL)
*/

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* /tcpdump-tar-gz/tcpdump/oakley.h
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```
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*
* Initial contribution from John Hawkinson <jhawk@bbnplanet.com>
 *
* This module implements support for decoding GRE (Generic Routing
* Encapsulation) tunnels; they're documented in RFC1701 and RFC1702.
* This code only supports the IP encapsulation thereof.
*/

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* @(#)ip.h 8.2 (Berkeley) 6/1/94
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```
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*
* This file specifies the "implementation-independent" BOOTP protocol
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*
* This file is part of the SCTP reference Implementation
*
*
* Please send any bug reports or fixes you make to one of the following email
* addresses:
*
* rstewar1@email.mot.com
* kmorneau@cisco.com
* qxie1@email.mot.com
*
* Any bugs reported given to us we will try to fix... any fixes shared will
* be incorperated into the next SCTP release.
*/

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* AppleTalk protocol formats (courtesy Bill Croft of Stanford/SUMEX).
*
* @(#) $Header: /tcpdump/master/tcpdump/appletalk.h,v 1.13 2000/10/03 02:54:54 itojun Exp $ (LBL)
*/

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* @(#)nfsproto.h 8.2 (Berkeley) 3/30/95
*/

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* /tcpdump-tar-gz/tcpdump/lane.h
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* Original code by Hannes Gredler (hannes@juniper.net)
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```

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*                                                *
*                                                *
* File   :    dcsip-decode.h                          *
*                                                *
* Author(s):  Debendra Sahu                              *
*                                                *
* Description: This file contains DC-SIP stack specific functions for      *
*            decoding the sip message.
             *
*                                                *
* History:                                          *
*        July 08, 2010 - Initial Creation.                  *
*                                                *
**************************************************************************/
```

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/* Note: Proprietary IE -"IMSI" is added as OPTIONAL param ,
   Requested Equipment Info & EXT container are present only in MAP VER3 so set   \
   as OPTIONAL
*/

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*
* Format and print trivial file transfer protocol packets.
*/

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* /tcpdump-tar-gz/tcpdump/print-chdlc.c
* /tcpdump-tar-gz/tcpdump/util.c
* /tcpdump-tar-gz/tcpdump/chdlc.h
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* @(#)tcp.h 8.1 (Berkeley) 6/10/93
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*/
/*
  * When negotiating ESP without authentication, the Auth
  * Algorithm attribute MUST NOT be included in the proposal.
  * When negotiating ESP without confidentiality, the Auth
  * Algorithm attribute MUST be included in the proposal and
  * the ESP transform ID must be ESP_NULL.
 */

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*
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* @(#) $Header: /tcpdump/master/tcpdump/ethertype.h,v 1.12 2000/09/23 08:03:30 guy Exp $ (LBL)
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* @(#) $Header: /tcpdump/master/tcpdump/sll.h,v 1.4 2000/12/23 07:52:11 guy Exp $ (LBL)
*/

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* L2TP support contributed by Motonori Shindo (mshindo@mshindo.net)
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* /tcpdump-tar-gz/tcpdump/l2tp.h
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*
* Format and print bootp packets.
*/

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*
* @(#)timed.h 8.1 (Berkeley) 6/2/93
*/

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* @(#) $Header: /tcpdump/master/tcpdump/llc.h,v 1.8 2000/12/18 07:55:36 guy Exp $ (LBL)
*/

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/*
        * Move past the unrecognized extension; note that the length field
        * is not always a byte long and our computation may be incorrect in
        * such cases where new or proprietary extensions with length fields
        * of 2 or more bytes are received.
        */

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*
* @(#) $Header: /tcpdump/master/tcpdump/tcpdump-stdinc.h,v 1.7.2.1 2003/11/16 09:57:50 guy Exp $ (LBL)
*/

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* @(#) $Header: /tcpdump/master/tcpdump/decnet.h,v 1.7 2000/10/03 02:54:55 itojun Exp $ (LBL)
*/

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```
/*
* Definitions that user level programs might need to know to interact
* with serial line IP (slip) lines.
*
* @(#) $Header: /tcpdump/master/tcpdump/slip.h,v 1.1 2000/10/09 01:53:21 guy Exp $
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*                                                *
*                                                *
* File   :    dcsip-decode.c                          *
*                                                *
* Author(s):  Debendra Sahu                              *
*                                                *
* Description: This file contains DC-SIP stack specific functions for      *
*             decoding the sip message.
              *
*                                                *
* History:                                           *
*        July 08, 2010 - Initial Creation.                  *
*                                                *
*****************************************************************************/
```

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* /tcpdump-tar-gz/tcpdump/dcsip-decode.c

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*
* Hacked version of print-ether.c  Larry Lile <lile@stdio.com>
*
* Further tweaked to more closely resemble print-fddi.c
* Guy Harris <guy@alum.mit.edu>
*/
```

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* @(#)ip_icmp.h 8.1 (Berkeley) 6/10/93
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* /tcpdump-tar-gz/tcpdump/print-icmp6.c
* /tcpdump-tar-gz/tcpdump/print-rt6.c
* /tcpdump-tar-gz/tcpdump/print-frag6.c
* /tcpdump-tar-gz/tcpdump/print-ipcomp.c
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*
* Format and print ntp packets.
* By Jeffrey Mogul/DECWRL
* loosely based on print-bootp.c
*/

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* /tcpdump-tar-gz/tcpdump/print-lcp.c
* /tcpdump-tar-gz/tcpdump/print-nfs.c
* /tcpdump-tar-gz/tcpdump/print-sll.c
* /tcpdump-tar-gz/tcpdump/print-domain.c
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*
* This started out as a very simple program, but the incremental decoding
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/tcpdump-tar-gz/tcpdump/obj.prodgdb-x86/print-ppp.o: binary file matches
/tcpdump-tar-gz/tcpdump/obj.prodgdb-x86/print-radius.o: binary file matches
/tcpdump-tar-gz/tcpdump/obj.prodgdb-x86/tcpdump: binary file matches

Found in path(s):
* /bin/grep

1.35 e2fsprogs 1.47.0

1.35.1 Available under license :

Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/

```
 /*
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+   trivial database library - standalone version

-   trivial database library - private includes
-
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Upstream-Name: e2fsprogs
Upstream-Contact: Theodore Ts'o <tytso@mit.edu>
Source: http://sourceforge.net/projects/e2fsprogs
Comment:
This is the Debian GNU/Linux prepackaged version of the EXT2 file
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debugfs/do_journal.c
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Theodore Ts'o
23-June-2007

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

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

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

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If distribution of object code is made by offering access to copy
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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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Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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

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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!
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
```

$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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1.36 libcap 2.44

1.36.1 Available under license :

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1.37 pcre 8.44

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1.38 libevent 2.1.12

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1.39 iputils 0211215

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1.41 iputils 20070202

1.41.1 Available under license :

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Found in path(s):
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/tftpsubs.c
*
/iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/tftpd.c
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*
* @(#)tftp.h 8.1 (Berkeley) 6/2/93
*/

Found in path(s):
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/tftp.h

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/* pg3.c: Packet Generator for packet performance testing.
*
* Copyright 2001 by Robert Olsson <robert.olsson@its.uu.se>
*   Uppsala University, Sweden
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*
*
*
*/

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License: Other

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* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/iputils.db
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diff -urN iputils-20070202/doc/arping.8 iputils-20070202-man/doc/arping.8
--- iputils-20070202/doc/arping.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/arping.8 2007-06-04 08:43:27.000000000 -0700
@@ -0,0 +1,110 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document. This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "ARPING" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+arping \- send ARP REQUEST to a neighbour host
+.SH SYNOPSIS
+

+\fBarping\fR [\fB-AbDfhqUV\fR] [\fB-c \fIcount\fB\fR] [\fB-w \fIdeadline\fB\fR] [\fB-s \fIsource\fB\fR] \fB-I \fIinterface\fB\fR \fB\fIdestination\fB\fR
+
+.SH "DESCRIPTION"
+.PP
+Ping \fIdestination\fR on device \fIinterface\fR by ARP
 packets,
+using source address \fIsource\fR.
+.SH "OPTIONS"
+.TP
+\fB-A\fR
+The same as \fB-U\fR, but ARP REPLY packets used instead
+of ARP REQUEST.
+.TP
+\fB-b\fR
+Send only MAC level broadcasts. Normally \fBarping\fR starts
+from sending broadcast, and switch to unicast after reply received.
+.TP
+\fB-c \fIcount\fB\fR
+Stop after sending \fIcount\fR ARP REQUEST
+packets. With
+\fIdeadline\fR
+option, \fBarping\fR waits for
+\fIcount\fR ARP REPLY packets, until the timeout expires.
+.TP
+\fB-D\fR
+Duplicate address detection mode (DAD). See
+RFC2131, 4.4.1.
+Returns 0, if DAD succeeded i.e. no replies are received
+.TP
+\fB-f\fR
+Finish after the first reply confirming that target is alive.
+.TP
+\fB-I \fIinterface\fB\fR
+Name of network device where to send ARP REQUEST packets. This option
+is required.
+.TP
+\fB-h\fR
+Print help page and exit.
+.TP
+\fB-q\fR
+Quiet output. Nothing is displayed.
+.TP
+\fB-s \fIsource\fB\fR
+IP source address to use in ARP packets.
+If this option
 is absent, source address is:
+.RS

+.TP 0.2i
+\(bu
+In DAD mode (with option \fB-D\fR) set to 0.0.0.0.
+.TP 0.2i
+\(bu
+In Unsolicited ARP mode (with options \fB-U\fR or \fB-A\fR)
+set to \fIdestination\fR.
+.TP 0.2i
+\(bu
+Otherwise, it is calculated from routing tables.
+.RE
+.TP
+\fB-U\fR
+Unsolicited ARP mode to update neighbours' ARP caches.
+No replies are expected.
+.TP
+\fB-V\fR
+Print version of the program and exit.
+.TP
+\fB-w \fIdeadline\fB\fR
+Specify a timeout, in seconds, before
+\fBarping\fR
+exits regardless of how many
+packets have been sent or received. In this case
+\fBarping\fR
+does not stop after
+\fIcount\fR
+packet are sent, it waits either for
+\fIdeadline\fR
+expire or until
+\fIcount\fR
+probes are answered.
+.SH "SEE ALSO"
+.PP
+\fBping\fR(8),
+\fBclockdiff\fR(8),
+\fBtracepath\fR(8).
+.SH "AUTHOR"
+.PP
+\fBarping\fR was written by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>.
+It is now maintained by
+YOSHIFUJI Hideaki
+<yoshfuji@skbuff.net>.
+.SH "SECURITY"
+.PP
+\fBarping\fR

requires CAP_NET_RAWIO capability
+to be executed. It is not recommended to be used as set-uid root,
+because it allows user to modify ARP caches of neighbour hosts.
+.SH "AVAILABILITY"
+.PP
+\fBarping\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/clockdiff.8 iputils-20070202-man/doc/clockdiff.8
--- iputils-20070202/doc/clockdiff.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/clockdiff.8 2007-06-04 08:43:28.000000000 -0700
@@ -0,0 +1,81 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document. This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "CLOCKDIFF" "8" "04 June 2007" "iputils-070202" "System Manager's Manual:
 iputils"
+.SH NAME
+clockdiff \- measure clock difference between hosts
+.SH SYNOPSIS
+
+\fBclockdiff\fR [\fB-o\fR] [\fB-o1\fR] \fB\fIdestination\fB\fR
+
+.SH "DESCRIPTION"
+.PP
+\fBclockdiff\fR Measures clock difference between us and
+\fIdestination\fR with 1 msec resolution using ICMP TIMESTAMP
+[2]
+packets or, optionally, IP TIMESTAMP option
+[3]
+option added to ICMP ECHO.
+[1]
+.SH "OPTIONS"
+.TP
+\fB-o\fR
+Use IP TIMESTAMP with ICMP ECHO instead of ICMP TIMESTAMP
+messages. It is useful with some destinations, which do not support
+ICMP TIMESTAMP (f.e. Solaris <2.4).
+.TP
+\fB-o1\fR
+Slightly different form of \fB-o\fR, namely it uses three-term
+IP TIMESTAMP with prespecified hop addresses instead of four term one.
+What flavor works better depends on target host. Particularly,
+\fB-o\fR is better for Linux.
+.SH "WARNINGS"
+.TP 0.2i

+\(bu
+Some nodes (Cisco) use non-standard timestamps, which is allowed
+by RFC, but makes timestamps mostly useless.
+.TP 0.2i
+\(bu
+Some nodes
 generate messed timestamps (Solaris>2.4), when
+run \fBxntpd\fR. Seems, its IP stack uses a corrupted clock source,
+which is synchronized to time-of-day clock periodically and jumps
+randomly making timestamps mostly useless. Good news is that you can
+use NTP in this case, which is even better.
+.TP 0.2i
+\(bu
+\fBclockdiff\fR shows difference in time modulo 24 days.
+.SH "SEE ALSO"
+.PP
+\fBping\fR(8),
+\fBarping\fR(8),
+\fBtracepath\fR(8).
+.SH "REFERENCES"
+.PP
+[1] ICMP ECHO,
+RFC0792, page 14.
+.PP
+[2] ICMP TIMESTAMP,
+RFC0792, page 16.
+.PP
+[3] IP TIMESTAMP option,
+RFC0791, 3.1, page 16.
+.SH "AUTHOR"
+.PP
+\fBclockdiff\fR was compiled by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>. It was based on code borrowed
+from BSD \fBtimed\fR daemon.
+It is now maintained by
+YOSHIFUJI Hideaki
+<yoshfuji@skbuff.net>.
+.SH "SECURITY"
+.PP
+\fBclockdiff\fR requires CAP_NET_RAWIO capability
+to be executed. It is safe to be used as set-uid root.
+.SH "AVAILABILITY"
+.PP
+\fBclockdiff\fR
 is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.

```
diff -urN iputils-20070202/doc/pg3.8 iputils-20070202-man/doc/pg3.8
--- iputils-20070202/doc/pg3.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/pg3.8 2007-06-04 08:43:29.000000000 -0700
@@ -0,0 +1,86 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document.  This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "PG3" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+pg3, ipg, pgset \- send stream of UDP packets
+.SH SYNOPSIS
+
+\fBsource ipg\fR
+
+
+\fBpg\fR
+
+
+\fBpgset\fR \fB\fICOMMAND\fB\fR
+
+.SH "DESCRIPTION"
+.PP
+\fBipg\fR is not a program, it is script which should be sourced
+to \fBbash\fR.
 When sourced it loads module \fIpg3\fR and
+exports a few of functions accessible from parent shell. These macros
+are \fBpg\fR to start packet injection and to get the results of run;
+and \fBpgset\fR to setup packet generator.
+.PP
+\fBpgset\fR can send the following commands to module \fIpg3\fR:
+.SH "COMMAND"
+.TP
+\fBodev \fIDEVICE\fB\fR
+Name of Ethernet device to test. See
+warning below.
+.TP
+\fBpkt_size \fIBYTES\fB\fR
+Size of packet to generate. The size includes all the headers: UDP, IP,
+MAC, but does not account for overhead internal to medium, i.e. FCS
+and various paddings.
+.TP
+\fBfrags \fINUMBER\fB\fR
+Each packet will contain \fINUMBER\fR of fragments.
+Maximal amount for linux-2.4 is 6. Far not all the devices support
+fragmented buffers.
+.TP
```

+\fBcount \fINUMBER\fB\fR
+Send stream of \fINUMBER\fR of packets and stop after this.
+.TP
+\fBipg \fITIME\fB\fR
+Introduce artificial delay between packets of \fITIME\fR
+microseconds.
+.TP
+\fBdst \fIIP_ADDRESS\fB\fR
+Select
 IP destination where the stream is sent to.
+Beware, never set this address at random. \fBpg3\fR is not a toy,
+it creates really tough stream. Default value is 0.0.0.0.
+.TP
+\fBdst \fIMAC_ADDRESS\fB\fR
+Select MAC destination where the stream is sent to.
+Default value is 00:00:00:00:00:00 in hope that this will not be received
+by any node on LAN.
+.TP
+\fBstop\fR
+Abort packet injection.
+.SH "WARNING"
+.PP
+When output device is set to some random device different
+of hardware Ethernet device, \fBpg3\fR will crash kernel.
+.PP
+Do not use it on VLAN, ethertap, VTUN and other devices,
+which emulate Ethernet not being real Ethernet in fact.
+.SH "AUTHOR"
+.PP
+\fBpg3\fR was written by Robert Olsson <robert.olsson@its.uu.se>.
+.SH "SECURITY"
+.PP
+This can be used only by superuser.
+.PP
+This tool creates floods of packets which is unlikely to be handled
+even by high-end machines. For example, it saturates gigabit link with
+60 byte packets when used with Intel's e1000. In face
 of such stream
+switches, routers and end hosts may deadlock, crash, explode.
+Use only in test lab environment.
+.SH "AVAILABILITY"
+.PP
+\fBpg3\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/ping.8 iputils-20070202-man/doc/ping.8
--- iputils-20070202/doc/ping.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/ping.8 2007-06-04 08:43:30.000000000 -0700

```
@@ -0,0 +1,332 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document.  This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "PING" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+ping, ping6 \- send ICMP ECHO_REQUEST to network hosts
+.SH SYNOPSIS
+
+\fBping\fR
 [\fB-LRUbdfnqrvVaAB\fR] [\fB-c \fIcount\fB\fR] [\fB-i \fIinterval\fB\fR] [\fB-l \fIpreload\fB\fR] [\fB-p
\fIpattern\fB\fR] [\fB-s \fIpacketsize\fB\fR] [\fB-t \fIttl\fB\fR] [\fB-w \fIdeadline\fB\fR] [\fB-F \fIflowlabel\fB\fR]
[\fB-I \fIinterface\fB\fR] [\fB-M \fIhint\fB\fR] [\fB-Q \fItos\fB\fR] [\fB-S \fIsndbuf\fB\fR] [\fB-T \fItimestamp
option\fB\fR] [\fB-W \fItimeout\fB\fR] [\fB\fIhop\fB\fR\fI ...\fR] \fB\fIdestination\fB\fR
+
+.SH "DESCRIPTION"
+.PP
+\fBping\fR uses the ICMP protocol's mandatory ECHO_REQUEST
+datagram to elicit an ICMP ECHO_RESPONSE from a host or gateway.
+ECHO_REQUEST datagrams (``pings'') have an IP and ICMP
+header, followed by a struct timeval and then an arbitrary
+number of ``pad'' bytes used to fill out the packet.
+.SH "OPTIONS"
+.TP
+\fB-a\fR
+Audible ping.
+.TP
+\fB-A\fR
+Adaptive ping. Interpacket interval adapts to round-trip time, so that
+effectively not more than one (or more, if preload is set) unanswered probes
+present in the network. Minimal interval
 is 200msec for not super-user.
+On networks with low rtt this mode is essentially equivalent to flood mode.
+.TP
+\fB-b\fR
+Allow pinging a broadcast address.
+.TP
+\fB-B\fR
+Do not allow \fBping\fR to change source address of probes.
+The address is bound to one selected when \fBping\fR starts.
+.TP
+\fB-c \fIcount\fB\fR
+Stop after sending \fIcount\fR ECHO_REQUEST
+packets. With
+\fIdeadline\fR
+option, \fBping\fR waits for
```

+\fIcount\fR ECHO_REPLY packets, until the timeout expires.
+.TP
+\fB-d\fR
+Set the SO_DEBUG option on the socket being used.
+Essentially, this socket option is not used by Linux kernel.
+.TP
+\fB-F \fIflow label\fB\fR
+Allocate and set 20 bit flow label on echo request packets.
+(Only \fBping6\fR). If value is zero, kernel allocates random flow label.
+.TP
+\fB-f\fR
+Flood ping. For every ECHO_REQUEST sent a period ``." is printed,
+while for ever ECHO_REPLY received a backspace is printed.
+This provides a rapid display of how many packets are being
dropped.
+If interval is not given, it sets interval to zero and
+outputs packets as fast as they come back or one hundred times per second,
+whichever is more.
+Only the super-user may use this option with zero interval.
+.TP
+\fB-i \fIinterval\fB\fR
+Wait \fIinterval\fR seconds between sending each packet.
+The default is to wait for one second between each packet normally,
+or not to wait in flood mode. Only super-user may set interval
+to values less 0.2 seconds.
+.TP
+\fB-I \fIinterface address\fB\fR
+Set source address to specified interface address. Argument
+may be numeric IP address or name of device. When pinging IPv6
+link-local address this option is required.
+.TP
+\fB-l \fIpreload\fB\fR
+If \fIpreload\fR is specified,
+\fBping\fR sends that many packets not waiting for reply.
+Only the super-user may select preload more than 3.
+.TP
+\fB-L\fR
+Suppress loopback of multicast packets. This flag only applies if the ping
+destination is a multicast address.
+.TP
+\fB-n\fR
+Numeric
output only.
+No attempt will be made to lookup symbolic names for host addresses.
+.TP
+\fB-p \fIpattern\fB\fR
+You may specify up to 16 ``pad" bytes to fill out the packet you send.
+This is useful for diagnosing data-dependent problems in a network.

+For example, \fB-p ff\fR will cause the sent packet
+to be filled with all ones.
+.TP
+\fB-Q \fItos\fB\fR
+Set Quality of Service -related bits in ICMP datagrams.
+\fItos\fR can be either decimal or hex number.
+Traditionally (RFC1349), these have been interpreted as: 0 for reserved
+(currently being redefined as congestion control), 1-4 for Type of Service
+and 5-7 for Precedence.
+Possible settings for Type of Service are: minimal cost: 0x02,
+reliability: 0x04, throughput: 0x08, low delay: 0x10. Multiple TOS bits
+should not be set simultaneously. Possible settings for
+special Precedence range from priority (0x20) to net control (0xe0). You
+must be root (CAP_NET_ADMIN capability) to use Critical or
+higher precedence
 value. You cannot set
+bit 0x01 (reserved) unless ECN has been enabled in the kernel.
+In RFC2474, these fields has been redefined as 8-bit Differentiated
+Services (DS), consisting of: bits 0-1 of separate data (ECN will be used,
+here), and bits 2-7 of Differentiated Services Codepoint (DSCP).
+.TP
+\fB-q\fR
+Quiet output.
+Nothing is displayed except the summary lines at startup time and
+when finished.
+.TP
+\fB-R\fR
+Record route.
+Includes the RECORD_ROUTE option in the ECHO_REQUEST
+packet and displays the route buffer on returned packets.
+Note that the IP header is only large enough for nine such routes.
+Many hosts ignore or discard this option.
+.TP
+\fB-r\fR
+Bypass the normal routing tables and send directly to a host on an attached
+interface.
+If the host is not on a directly-attached network, an error is returned.
+This option can be used to ping a local host through an interface
+that has no route through it provided the option \fB-I\fR is also
+used.
+.TP
+\fB-s \fIpacketsize\fB\fR
+Specifies
 the number of data bytes to be sent.
+The default is 56, which translates into 64 ICMP
+data bytes when combined with the 8 bytes of ICMP header data.
+.TP
+\fB-S \fIsndbuf\fB\fR

+Set socket sndbuf. If not specified, it is selected to buffer
+not more than one packet.
+.TP
+\fB-t \fIttl\fB\fR
+Set the IP Time to Live.
+.TP
+\fB-T \fItimestamp option\fB\fR
+Set special IP timestamp options.
+\fItimestamp option\fR may be either
+\fItsonly\fR (only timestamps),
+\fItsandaddr\fR (timestamps and addresses) or
+\fItsprespec host1 [host2 [host3 [host4]]]\fR
+(timestamp prespecified hops).
+.TP
+\fB-M \fIhint\fB\fR
+Select Path MTU Discovery strategy.
+\fIhint\fR may be either \fIdo\fR
+(prohibit fragmentation, even local one),
+\fIwant\fR (do PMTU discovery, fragment locally when packet size
+is large), or \fIdont\fR (do not set DF flag).
+.TP
+\fB-U\fR
+Print full user-to-user latency (the old behaviour). Normally
+\fBping\fR
+prints network round trip time,
 which can be different
+f.e. due to DNS failures.
+.TP
+\fB-v\fR
+Verbose output.
+.TP
+\fB-V\fR
+Show version and exit.
+.TP
+\fB-w \fIdeadline\fB\fR
+Specify a timeout, in seconds, before
+\fBping\fR
+exits regardless of how many
+packets have been sent or received. In this case
+\fBping\fR
+does not stop after
+\fIcount\fR
+packet are sent, it waits either for
+\fIdeadline\fR
+expire or until
+\fIcount\fR
+probes are answered or for some error notification from network.
+.TP

+\fB-W \fItimeout\fB\fR
+Time to wait for a response, in seconds. The option affects only timeout
+in absense of any responses, otherwise \fBping\fR waits for two RTTs.
+.PP
+When using \fBping\fR for fault isolation, it should first be run
+on the local host, to verify that the local network interface is up
+and running. Then, hosts and gateways further and further away should be
+``pinged". Round-trip times and packet loss statistics are computed.
+If duplicate packets are received, they are not included
 in the packet
+loss calculation, although the round trip time of these packets is used
+in calculating the minimum/average/maximum round-trip time numbers.
+When the specified number of packets have been sent (and received) or
+if the program is terminated with a
+SIGINT, a brief summary is displayed. Shorter current statistics
+can be obtained without termination of process with signal
+SIGQUIT.
+.PP
+If \fBping\fR does not receive any reply packets at all it will
+exit with code 1. If a packet
+\fIcount\fR
+and
+\fIdeadline\fR
+are both specified, and fewer than
+\fIcount\fR
+packets are received by the time the
+\fIdeadline\fR
+has arrived, it will also exit with code 1.
+On other error it exits with code 2. Otherwise it exits with code 0. This
+makes it possible to use the exit code to see if a host is alive or
+not.
+.PP
+This program is intended for use in network testing, measurement and
+management.
+Because of the load it can impose on the network, it is unwise to use
+\fBping\fR
 during normal operations or from automated scripts.
+.SH "ICMP PACKET DETAILS"
+.PP
+An IP header without options is 20 bytes.
+An ICMP ECHO_REQUEST packet contains an additional 8 bytes worth
+of ICMP header followed by an arbitrary amount of data.
+When a \fIpacketsize\fR is given, this indicated the size of this
+extra piece of data (the default is 56). Thus the amount of data received
+inside of an IP packet of type ICMP ECHO_REPLY will always be 8 bytes
+more than the requested data space (the ICMP header).
+.PP
+If the data space is at least of size of struct timeval

+\fBping\fR uses the beginning bytes of this space to include
+a timestamp which it uses in the computation of round trip times.
+If the data space is shorter, no round trip times are given.
+.SH "DUPLICATE AND DAMAGED PACKETS"
+.PP
+\fBping\fR will report duplicate and damaged packets.
+Duplicate packets should never occur, and seem to be caused by
+inappropriate link-level retransmissions.
+Duplicates may
 occur in many situations and are rarely (if ever) a
+good sign, although the presence of low levels of duplicates may not
+always be cause for alarm.
+.PP
+Damaged packets are obviously serious cause for alarm and often
+indicate broken hardware somewhere in the
+\fBping\fR packet's path (in the network or in the hosts).
+.SH "TRYING DIFFERENT DATA PATTERNS"
+.PP
+The (inter)network layer should never treat packets differently depending
+on the data contained in the data portion.
+Unfortunately, data-dependent problems have been known to sneak into
+networks and remain undetected for long periods of time.
+In many cases the particular pattern that will have problems is something
+that doesn't have sufficient ``transitions'', such as all ones or all
+zeros, or a pattern right at the edge, such as almost all zeros.
+It isn't necessarily enough to specify a data pattern of all zeros (for
+example) on the command line because the pattern that is of interest is
+at the data link level, and
 the relationship between what you type and
+what the controllers transmit can be complicated.
+.PP
+This means that if you have a data-dependent problem you will probably
+have to do a lot of testing to find it.
+If you are lucky, you may manage to find a file that either can't be sent
+across your network or that takes much longer to transfer than other
+similar length files.
+You can then examine this file for repeated patterns that you can test
+using the \fB-p\fR option of \fBping\fR.
+.SH "TTL DETAILS"
+.PP
+The TTL value of an IP packet represents the maximum number of IP routers
+that the packet can go through before being thrown away.
+In current practice you can expect each router in the Internet to decrement
+the TTL field by exactly one.
+.PP
+The TCP/IP specification states that the TTL field for TCP
+packets should be set to 60, but many systems use smaller values
+(4.3 BSD uses 30, 4.2 used 15).

+.PP
+The maximum possible value of this field is 255, and most Unix systems
 set
+the TTL field of ICMP ECHO_REQUEST packets to 255.
+This is why you will find you can ``ping'' some hosts, but not reach them
+with
+\fBtelnet\fR(1)
+or
+\fBftp\fR(1).
+.PP
+In normal operation ping prints the ttl value from the packet it receives.
+When a remote system receives a ping packet, it can do one of three things
+with the TTL field in its response:
+.TP 0.2i
+\(bu
+Not change it; this is what Berkeley Unix systems did before the
+4.3BSD Tahoe release. In this case the TTL value in the received packet
+will be 255 minus the number of routers in the round-trip path.
+.TP 0.2i
+\(bu
+Set it to 255; this is what current Berkeley Unix systems do.
+In this case the TTL value in the received packet will be 255 minus the
+number of routers in the path \fBfrom\fR
+the remote system \fBto\fR the \fBping\fRing host.
+.TP 0.2i
+\(bu
+Set it to some other value. Some machines use the same value for
+ICMP packets that they use for TCP packets, for example either 30 or 60.
+Others may
 use completely wild values.
+.SH "BUGS"
+.TP 0.2i
+\(bu
+Many Hosts and Gateways ignore the RECORD_ROUTE option.
+.TP 0.2i
+\(bu
+The maximum IP header length is too small for options like
+RECORD_ROUTE to be completely useful.
+There's not much that that can be done about this, however.
+.TP 0.2i
+\(bu
+Flood pinging is not recommended in general, and flood pinging the
+broadcast address should only be done under very controlled conditions.
+.SH "SEE ALSO"
+.PP
+\fBnetstat\fR(1),
+\fBifconfig\fR(8).
+.SH "HISTORY"

```
+.PP
+The \fBping\fR command appeared in 4.3BSD.
+.PP
+The version described here is its descendant specific to Linux.
+.SH "SECURITY"
+.PP
+\fBping\fR requires CAP_NET_RAWIO capability
+to be executed. It may be used as set-uid root.
+.SH "AVAILABILITY"
+.PP
+\fBping\fR is part of \fIiputils\fR package
+and the latest versions are  available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/rarpd.8 iputils-20070202-man/doc/rarpd.8
---
 iputils-20070202/doc/rarpd.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/rarpd.8 2007-06-04 08:43:31.000000000 -0700
@@ -0,0 +1,84 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document.  This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "RARPD" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+rarpd \- answer RARP REQUESTs
+.SH SYNOPSIS
+
+\fBarping\fR [\fB-aAvde\fR] [\fB-b \fIbootdir\fB\fR] [\fB\fIinterface\fB\fR]
+
+.SH "DESCRIPTION"
+.PP
+Listens
+RARP
+requests from clients. Provided MAC address of client
+is found in \fI/etc/ethers\fR database and
+obtained host name is resolvable to an IP address appropriate
+for attached network, \fBrarpd\fR answers to client with RARPD
+reply carrying an IP address.
+.PP
+To allow
+ multiple boot servers on the network \fBrarpd\fR
+optionally checks for presence Sun-like bootable image in TFTP directory.
+It should have form \fBHexadecimal_IP.ARCH\fR, f.e. to load
+sparc 193.233.7.98 \fIC1E90762.SUN4M\fR is linked to
+an image appropriate for SUM4M in directory \fI/etc/tftpboot\fR.
+.SH "WARNING"
+.PP
```

+This facility is deeply obsoleted by
+BOOTP
+and later
+DHCP protocols.
+However, some clients really still need this to boot.
+.SH "OPTIONS"
+.TP
+\fB-a\fR
+Listen on all the interfaces. Currently it is an internal
+option, its function is overridden with \fIinterface\fR
+argument. It should not be used.
+.TP
+\fB-A\fR
+Listen not only RARP but also ARP messages, some rare clients
+use ARP by some unknown reason.
+.TP
+\fB-v\fR
+Be verbose.
+.TP
+\fB-d\fR
+Debug mode. Do not go to background.
+.TP
+\fB-e\fR
+Do not check for presence of a boot image, reply if MAC address
+resolves to a valid IP address using \fI/etc/ethers\fR
+database and DNS.
+.TP
+\fB-b \fIbootdir\fB\fR
+TFTP
 boot directory. Default is \fI/etc/tftpboot\fR
+.SH "SEE ALSO"
+.PP
+\fBarping\fR(8),
+\fBtftpd\fR(8).
+.SH "AUTHOR"
+.PP
+\fBrarpd\fR was written by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>.
+It is now maintained by
+YOSHIFUJI Hideaki
+<yoshfuji@skbuff.net>.
+.SH "SECURITY"
+.PP
+\fBrarpd\fR requires CAP_NET_RAWIO capability
+to listen and send RARP and ARP packets. It also needs CAP_NET_ADMIN
+to give to kernel hint for ARP resolution; this is not strictly required,
+but some (most of, to be more exact) clients are so badly broken that

+are not able to answer ARP before they are finally booted. This is
+not wonderful taking into account that clients using RARPD in 2002
+are all unsupported relic creatures of 90's and even earlier.
+.SH "AVAILABILITY"
+.PP
+\fBrarpd\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/rdisc.8 iputils-20070202-man/doc/rdisc.8
---
 iputils-20070202/doc/rdisc.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/rdisc.8 2007-06-04 08:43:32.000000000 -0700
@@ -0,0 +1,110 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document. This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "RDISC" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+rdisc \- network router discovery daemon
+.SH SYNOPSIS
+
+\fBrdisc\fR [\fB-abdfstvV\fR] [\fB\fIsend_address\fB\fR] [\fB\fIreceive_address\fB\fR]
+
+.SH "DESCRIPTION"
+.PP
+\fBrdisc\fR implements client side of the ICMP router discover protocol.
+\fBrdisc\fR is invoked at boot time to populate the network
+routing tables with default routes.
+.PP
+\fBrdisc\fR listens on the ALL_HOSTS (224.0.0.1) multicast address
+(or \fIreceive_address\fR
 provided it is given)
+for ROUTER_ADVERTISE messages from routers. The received
+messages are handled by first ignoring those listed router addresses
+with which the host does not share a network. Among the remaining addresses
+the ones with the highest preference are selected as default routers
+and a default route is entered in the kernel routing table
+for each one of them.
+.PP
+Optionally, \fBrdisc\fR can avoid waiting for routers to announce
+themselves by sending out a few ROUTER_SOLICITATION messages
+to the ALL_ROUTERS (224.0.0.2) multicast address
+(or \fIsend_address\fR provided it is given)
+when it is started.
+.PP
+A timer is associated with each router address and the address will

+no longer be considered for inclusion in the the routing tables if the
+timer expires before a new
+\fBadvertise\fR message is received from the router.
+The address will also be excluded from consideration if the host receives an
+\fBadvertise\fR
+message with the preference
being maximally negative.
+.PP
+Server side of router discovery protocol is supported by Cisco IOS
+and by any more or less complete UNIX routing daemon, f.e \fBgated\fR.
+.SH "OPTIONS"
+.TP
+\fB-a\fR
+Accept all routers independently of the preference they have in their
+\fBadvertise\fR messages.
+Normally \fBrdisc\fR only accepts (and enters in the kernel routing
+tables) the router or routers with the highest preference.
+.TP
+\fB-b\fR
+Opposite to \fB-a\fR, i.e. install only router with the best
+preference value. It is default behaviour.
+.TP
+\fB-d\fR
+Send debugging messages to syslog.
+.TP
+\fB-f\fR
+Run \fBrdisc\fR forever even if no routers are found.
+Normally \fBrdisc\fR gives up if it has not received any
+\fBadvertise\fR message after after soliciting three times,
+in which case it exits with a non-zero exit code.
+If \fB-f\fR is not specified in the first form then
+\fB-s\fR must be specified.
+.TP
+\fB-s\fR
+Send three \fBsolicitation\fR messages initially
to quickly discover
+the routers when the system is booted.
+When \fB-s\fR is specified \fBrdisc\fR
+exits with a non-zero exit code if it can not find any routers.
+This can be overridden with the \fB-f\fR option.
+.TP
+\fB-t\fR
+Test mode. Do not go to background.
+.TP
+\fB-v\fR
+Be verbose i.e. send lots of debugging messages to syslog.
+.TP
+\fB-V\fR

```
+Print version and exit.
+.SH "HISTORY"
+.PP
+This program was developed by Sun Microsystems (see copyright
+notice in source file). It was ported to Linux by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>.
+It is now maintained by
+YOSHIFUJI Hideaki
+<yoshfuji@skbuff.net>.
+.SH "SEE ALSO"
+.PP
+\fBicmp\fR(7),
+\fBinet\fR(7),
+\fBping\fR(8).
+.SH "REFERENCES"
+.PP
+Deering, S.E.,ed "ICMP Router Discovery Messages",
+RFC1256, Network Information Center, SRI International,
+Menlo Park, Calif., September 1991.
+.SH "SECURITY"
+.PP
+\fBrdisc\fR requires CAP_NET_RAWIO to listen
+and send ICMP messages and capability CAP_NET_ADMIN
+to update routing
 tables.
+.SH "AVAILABILITY"
+.PP
+\fBrdisc\fR is part of \fIiputils\fR package
+and the latest versions are  available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/tftpd.8 iputils-20070202-man/doc/tftpd.8
--- iputils-20070202/doc/tftpd.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/tftpd.8 2007-06-04 08:43:33.000000000 -0700
@@ -0,0 +1,85 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document.  This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "TFTPD" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+tftpd \- Trivial File Transfer Protocol server
+.SH SYNOPSIS
+
+\fBtftpd\fR \fB\fIdirectory\fB\fR
+
+.SH "DESCRIPTION"
```

+.PP
+\fBtftpd\fR is a server which supports the DARPA
+Trivial
File Transfer Protocol
+(RFC1350).
+The TFTP server is started
+by \fBinetd\fR(8).
+.PP
+\fIdirectory\fR is required argument; if it is not given
+\fBtftpd\fR aborts. This path is prepended to any file name requested
+via TFTP protocol, effectively chrooting \fBtftpd\fR to this directory.
+File names are validated not to escape out of this directory, however
+administrator may configure such escape using symbolic links.
+.PP
+It is in difference of variants of \fBtftpd\fR usually distributed
+with unix-like systems, which take a list of directories and match
+file names to start from one of given prefixes or to some random
+default, when no arguments were given. There are two reasons not to
+behave in this way: first, it is inconvenient, clients are not expected
+to know something about layout of filesystem on server host.
+And second, TFTP protocol is not a tool for browsing of server's filesystem,
+it is just an agent allowing to boot dumb clients.
+.PP
+In the case when \fBtftpd\fR
is used together with
+\fBrarpd\fR(8),
+tftp directories in these services should coincide and it is expected
+that each client booted via TFTP has boot image corresponding
+its IP address with an architecture suffix following Sun Microsystems
+conventions. See
+\fBrarpd\fR(8)
+for more details.
+.SH "SECURITY"
+.PP
+TFTP protocol does not provide any authentication.
+Due to this capital flaw \fBtftpd\fR is not able to restrict
+access to files and will allow only publically readable
+files to be accessed. Files may be written only if they already
+exist and are publically writable.
+.PP
+Impact is evident, directory exported via TFTP \fBmust not\fR
+contain sensitive information of any kind, everyone is allowed
+to read it as soon as a client is allowed. Boot images do not contain
+such information as rule, however you should think twice before
+publishing f.e. Cisco IOS config files via TFTP, they contain
+\fBunencrypted\fR passwords and may contain some information
+about the

network, which you were not going to make public.
+.PP
+The \fBtftpd\fR server should be executed by \fBinetd\fR
+with dropped root privileges, namely with a user ID giving minimal
+access to files published in tftp directory. If it is executed
+as superuser occasionally, \fBtftpd\fR drops its UID and GID
+to 65534, which is most likely not the thing which you expect.
+However, this is not very essential; remember, only files accessible
+for everyone can be read or written via TFTP.
+.SH "SEE ALSO"
+.PP
+\fBrarpd\fR(8),
+\fBtftp\fR(1),
+\fBinetd\fR(8).
+.SH "HISTORY"
+.PP
+The \fBtftpd\fR command appeared in 4.2BSD. The source in iputils
+is cleaned up both syntactically (ANSIized) and semantically (UDP socket IO).
+.PP
+It is distributed with iputils mostly as good demo of an interesting feature
+(MSG_CONFIRM) allowing to boot long images by dumb clients
+not answering ARP requests until they are finally booted.
+However, this is full functional and can be used in production.
+.SH
"AVAILABILITY"
+.PP
+\fBtftpd\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/tracepath.8 iputils-20070202-man/doc/tracepath.8
--- iputils-20070202/doc/tracepath.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/tracepath.8 2007-06-04 08:43:35.000000000 -0700
@@ -0,0 +1,86 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document. This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "TRACEPATH" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+tracepath, tracepath6 \- traces path to a network host discovering MTU along this path
+.SH SYNOPSIS
+
+\fBtracepath\fR [\fB-n\fR] \fB\fIdestination\fB\fR[\fB/\fIport\fB\fR]
+
+.SH
"DESCRIPTION"
+.PP

+It traces path to \fIdestination\fR discovering MTU along this path.
+It uses UDP port \fIport\fR or some random port.
+It is similar to \fBtraceroute\fR, only does not not require superuser
+privileges and has no fancy options.
+.PP
+\fBtracepath6\fR is good replacement for \fBtraceroute6\fR
+and classic example of application of Linux error queues.
+The situation with \fBtracepath\fR is worse, because commercial
+IP routers do not return enough information in icmp error messages.
+Probably, it will change, when they will be updated.
+For now it uses Van Jacobson's trick, sweeping a range
+of UDP ports to maintain trace history.
+.SH "OUTPUT"
+.PP
+
+.nf
+root@mops:~ # tracepath6 3ffe:2400:0:109::2
+ 1?: [LOCALHOST]   pmtu 1500
+ 1: dust.inr.ac.ru   0.411ms
+ 2: dust.inr.ac.ru   asymm 1   0.390ms pmtu 1480
+ 2: 3ffe:2400:0:109::2   463.514ms reached
+   Resume: pmtu 1480 hops 2 back 2
+.fi
+.PP
+The
 first column shows TTL of the probe, followed by colon.
+Usually value of TTL is obtained from reply from network,
+but sometimes reply does not contain necessary information and
+we have to guess it. In this case the number is followed by ?.
+.PP
+The second column shows the network hop, which replied to the probe.
+It is either address of router or word [LOCALHOST], if
+the probe was not sent to the network.
+.PP
+The rest of line shows miscellaneous information about path to
+the correspinding hetwork hop. As rule it contains value of RTT.
+Additionally, it can show Path MTU, when it changes.
+If the path is asymmetric
+or the probe finishes before it reach prescribed hop, difference
+between number of hops in forward and backward direction is shown
+folloing keyword async. This information is not reliable.
+F.e. the third line shows asymmetry of 1, it is because the first probe
+with TTL of 2 was rejected at the first hop due to Path MTU Discovery.
+.PP
+Te last line summarizes
 information about all the path to the destination,
+it shows detected Path MTU, amount of hops to the destination and our
+guess about amount of hops from the destination to us, which can be

+different when the path is asymmetric.
+.SH "SEE ALSO"
+.PP
+\fBtraceroute\fR(8),
+\fBtraceroute6\fR(8),
+\fBping\fR(8).
+.SH "AUTHOR"
+.PP
+\fBtracepath\fR was written by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>.
+.SH "SECURITY"
+.PP
+No security issues.
+.PP
+This lapidary deserves to be elaborated.
+\fBtracepath\fR is not a privileged program, unlike
+\fBtraceroute\fR, \fBping\fR and other beasts of this kind.
+\fBtracepath\fR may be executed by everyone who has some access
+to network, enough to send UDP datagrams to investigated destination
+using given port.
+.SH "AVAILABILITY"
+.PP
+\fBtracepath\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.
diff -urN iputils-20070202/doc/traceroute6.8
 iputils-20070202-man/doc/traceroute6.8
--- iputils-20070202/doc/traceroute6.8 1969-12-31 16:00:00.000000000 -0800
+++ iputils-20070202-man/doc/traceroute6.8 2007-06-04 08:43:35.000000000 -0700
@@ -0,0 +1,42 @@
+.\" This manpage has been automatically generated by docbook2man
+.\" from a DocBook document. This tool can be found at:
+.\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
+.\" Please send any bug reports, improvements, comments, patches,
+.\" etc. to Steve Cheng <steve@ggi-project.org>.
+.TH "TRACEROUTE6" "8" "04 June 2007" "iputils-070202" "System Manager's Manual: iputils"
+.SH NAME
+traceroute6 \- traces path to a network host
+.SH SYNOPSIS
+
+\fBtraceroute6\fR [\fB-dnrvV\fR] [\fB-i \fIinterface\fB\fR] [\fB-m \fImax_ttl\fB\fR] [\fB-p \fIport\fB\fR] [\fB-q
\fImax_probes\fB\fR] [\fB-s \fIsource\fB\fR] [\fB-w \fIwait time\fB\fR] \fB\fIdestination\fB\fR [\fB\fIsize\fB\fR]
+
+.SH "DESCRIPTION"
+.PP
+Description can be found in
+\fBtraceroute\fR(8),

+all the references
 to IP replaced to IPv6. It is needless to copy
+the description from there.
+.SH "SEE ALSO"
+.PP
+\fBtraceroute\fR(8),
+\fBtracepath\fR(8),
+\fBping\fR(8).
+.SH "HISTORY"
+.PP
+This program has long history. Author of \fBtraceroute\fR
+is Van Jacobson and it first appeared in 1988. This clone is
+based on a port of \fBtraceroute\fR to IPv6 published
+in NRL IPv6 distribution in 1996. In turn, it was ported
+to Linux by Pedro Roque. After this it was kept in sync by
+Alexey Kuznetsov
+<kuznet@ms2.inr.ac.ru>. And eventually entered
+\fBiputils\fR package.
+.SH "SECURITY"
+.PP
+\fBtracepath6\fR requires CAP_NET_RAWIO capability
+to be executed. It is safe to be used as set-uid root.
+.SH "AVAILABILITY"
+.PP
+\fBtraceroute6\fR is part of \fIiputils\fR package
+and the latest versions are available in source form at
+http://www.skbuff.net/iputils/iputils-current.tar.bz2.

Found in path(s):
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202-man.diff
No license file was found, but licenses were detected in source scan.

/*
* tracepath.c
*
* This program is free software; you can redistribute it and/or
* modify it under the terms of the GNU General Public License
* as published by the Free Software Foundation; either version
* 2 of the License, or (at your option) any later version.
*
* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
*/

Found in path(s):
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/tracepath.c
No license file was found, but licenses were detected in source scan.

License: BSD

Found in path(s):
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/iputils.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

docbook2man-spec - convert DocBook RefEntries to Unix manpages

=head1 SYNOPSIS

The SGMLSpm package from CPAN. This contains the sgmlspl script which
is used to grok this file. Use it like this:

nsgmls some-docbook-document.sgml | sgmlspl docbook2man-spec.pl

=head1 DESCRIPTION

This is a sgmlspl spec file that produces Unix-style
manpages from RefEntry markup.

See the accompanying RefEntry man page for 'plain new' documentation. :)

=head1 LIMITATIONS

Trying docbook2man on non-DocBook or non-conformant SGML results in
undefined behavior. :-)

This program is a slow, dodgy Perl script.

This program does not come close to supporting all the possible markup
in DocBook, and will produce wrong output in some cases with supported
markup.

=head1 TODO

Add new element handling and fix existing handling. Be robust.
Produce cleanest, readable man output as possible (unlike some
other converters). Follow
 Linux man(7) convention.
If this results in added logic in this script,
that's okay. The code should still be reasonably organized.

Make it faster. If Perl sucks port it to another language.

=head1 COPYRIGHT

Copyright (C) 1998-1999 Steve Cheng <steve@ggi-project.org>

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

You should have received a copy of the GNU General Public License along with
this program; see the file COPYING. If not, please write to the Free
Software Foundation, 675 Mass Ave, Cambridge, MA 02139, USA.

=cut

```
# $Id: docbook2man-spec.pl,v 1.1 2000/07/21 20:22:30 rosalia Exp $

use SGMLS;   # Use the SGMLS package.
use SGMLS::Output;  # Use stack-based output.
use SGMLS::Refs;

##############################################################################
# SGMLSPL script produced automatically by
 the script sgmlspl.pl
#
# Document Type: any, but processes only RefEntries
# Edited by: me :)
##############################################################################

$write_manpages = 0;
$blank_xrefs = 0;

sgml('start', sub {
 push_output('nul');
 $raw_cdata = 1;   # Makes it a bit faster.

 # Links file
 open(LINKSFILE, ">manpage.links");

 $Refs = new SGMLS::Refs("manpage.refs");
});
sgml('end', sub {
 close(LINKSFILE);
 if($blank_xrefs) {
  print STDERR "Warning: output contains unresolved XRefs\n";
 }
});
```

```
#############################################################################
#
# Output helpers
#
#############################################################################

# Our own version of sgml() and output() to allow simple string output
# to play well with roff's stupid whitespace rules.

sub man_sgml
{
 if(ref($_[1]) eq 'CODE') {
  return &sgml;
 }

 my $s = $_[1];

 $s =~ s/\\/\\\\/g;
 $s =~ s/'/\\'/g;

 # \n at the beginning means start at beginning of line
 if($s
 =~ s/^\n//) {
  $sub = 'sub { output "\n" unless $newline_last++; ';
  if($s eq '') {
   sgml($_[0], eval('sub { output "\n" unless $newline_last++; }'));
  } elsif($s =~ /\n$/) {
   sgml($_[0], eval("sub { output \"\\n\" unless \$newline_last++; output '$s'; }"));
  } else {
   sgml($_[0], eval("sub { output \"\\n\" unless \$newline_last; output '$s'; \$newline_last = 0; }"));
  }
 } else {
  if($s =~ /\n$/) {
   sgml($_[0], eval("sub { output '$s'; \$newline_last = 1; }"));
  } else {
   sgml($_[0], eval("sub { output '$s'; \$newline_last = 0; }"));
  }
 }
}

sub man_output
{
 $_ = shift;
 if(s/^\n//) {
  output "\n" unless $newline_last++;
 }
```

```
 return if $_ eq '';

 output $_;

 if(@_) {
  output @_;
  $newline_last = (pop(@_) =~ /\n$/);
 } else {
  $newline_last = ($_ =~ /\n$/)
 }
}

# Fold lines into one, quote some characters
sub fold_string
{
 $_ = shift;

 s/\\/\\\\/g;
 s/"/\\&"/g;

 # Change tabs to spaces
 tr/\t\n/  /;

 # Trim whitespace from beginning and end.
 s/^ +//;
 s/
 +$//;

 return $_;
}

sub save_cdata()
{
 $raw_cdata++;
 push_output('string');
}

sub bold_on()
{
 # If the last font is also bold, don't change anything.
 # Basically this is to just get more readable man output.
 if($fontstack[$#fontstack] ne 'bold') {
  if(!$raw_cdata) {
   output '\fB';
   $newline_last = 0;
  }
 }
 push(@fontstack, 'bold');
```

```
}

sub italic_on()
{
 # If the last font is also italic, don't change anything.
 if($fontstack[$#fontstack] ne 'italic') {
  if(!$raw_cdata) {
   output '\fI';
   $newline_last = 0;
  }
 }
 push(@fontstack, 'italic');
}

sub font_off()
{
 my $thisfont = pop(@fontstack);
 my $lastfont = $fontstack[$#fontstack];

 # Only output font change if it is different
 if($thisfont ne $lastfont) {
  if($raw_cdata)   { return; }
  elsif($lastfont eq 'bold')  { output '\fB'; }
  elsif($lastfont eq 'italic') { output '\fI'; }
  else    { output '\fR'; }

  $newline_last = 0;
 }
}
```

```
##############################################################################
#
#
 Manpage management
#
##############################################################################

sgml('<REFENTRY>', sub {
 # This will be overwritten at end of REFMETA, when we know the name of the page.
 pop_output();

 $write_manpages = 1;  # Currently writing manpage.
```

```
$nocollapse_whitespace = 0; # Current whitespace collapse counter.
$newline_last = 1;  # At beginning of line?
 # Just a bit of warning, you will see this variable manipulated
 # manually a lot.  It makes the code harder to follow but it
 # saves you from having to worry about collapsing at the end of
 # parse, stopping at verbatims, etc.
$raw_cdata = 0;                # Instructs certain output functions to
   # leave CDATA alone, so we can assign
   # it to a string and process it, etc.
@fontstack = ();  # Fonts being activated.

$manpage_title = '';  # Needed for indexing.
$manpage_sect = '';
@manpage_names = ();

$manpage_misc = '';

$list_nestlevel = 0;  # Indent certain nested
content.
});
sgml('</REFENTRY>', sub {
 if(!$newline_last) {
  output "\n";
 }

 $write_manpages = 0;
 $raw_cdata = 1;
 push_output('nul');
});

sgml('</REFMETA>', sub {
 push_output('file', "$manpage_title.$manpage_sect");

 output <<_END_BANNER;
.\\" This manpage has been automatically generated by docbook2man
.\\" from a DocBook document.  This tool can be found at:
.\\" <http://shell.ipoline.com/~elmert/comp/docbook2X/>
.\\" Please send any bug reports, improvements, comments, patches,
.\\" etc. to Steve Cheng <steve\@ggi-project.org>.
_END_BANNER

 my $manpage_date = `date "+%d %B %Y"`;

 output '.TH "';

 # If the title is not mixed-case, convention says to
 # uppercase the whole title.  (The canonical title is
 # lowercase.)
```

```
 if($manpage_title =~ /[A-Z]/) {
  output fold_string($manpage_title);
 } else {
  output uc(fold_string($manpage_title));
 }

 output  '" "', fold_string($manpage_sect),
  '" "', fold_string(`date "+%d %B %Y"`),
  '" "', $manpage_misc,
  '" "',
 $manpage_manual,
  "\"\n";

 $newline_last = 1;

 # References to this RefEntry.
 my $id = $_[0]->parent->attribute('ID')->value;
 if($id ne '') {
  # The 'package name' part of the section should
  # not be used when citing it.
  my ($sectnum) = ($manpage_sect =~ /([0-9]*)/);

  if($_[0]->parent->attribute('XREFLABEL')->value eq '') {
   $Refs->put("refentry:$id", "$manpage_title($sectnum)");
  } else {
   $Refs->put("refentry:$id",
    $_[0]->parent->attribute('XREFLABEL')->value .
    "($sectnum)");
  }
 }
});

sgml('<REFENTRYTITLE>', sub {
 if($_[0]->in('REFMETA')) {
  save_cdata();
 } else {
  # Manpage citations are in bold.
  bold_on();
 }
});
sgml('</REFENTRYTITLE>', sub {
 if($_[0]->in('REFMETA')) {
  $raw_cdata--;
  $manpage_title = pop_output();
 }
 else { font_off(); }
});
```

```
sgml('<MANVOLNUM>', sub {
 if($_[0]->in('REFMETA')) {
  save_cdata();
 } else {
  # Manpage citations use ().
  output '(';
 }
});
sgml('</MANVOLNUM>', sub {
 if($_[0]->in('REFMETA')) {
  $raw_cdata--;
  $manpage_sect
 = pop_output();
 }
 else { output ')' }
});

sgml('<REFMISCINFO>', \&save_cdata);
sgml('</REFMISCINFO>', sub {
 $raw_cdata--;
 $manpage_misc = fold_string(pop_output());
});


# NAME section
man_sgml('<REFNAMEDIV>', "\n.SH NAME\n");

sgml('<REFNAME>', \&save_cdata);
sgml('</REFNAME>', sub {
 $raw_cdata--;
 push(@manpage_names, pop_output());
});

sgml('<REFPURPOSE>', \&save_cdata);
sgml('</REFPURPOSE>', sub {
 $raw_cdata--;
 my $manpage_purpose = fold_string(pop_output());

 for(my $i = 0; $i < $#manpage_names; $i++) {
  output fold_string($manpage_names[$i]), ', ';
 }

 output fold_string($manpage_names[$#manpage_names]);
 output " \\- $manpage_purpose\n";

 $newline_last = 1;

 foreach(@manpage_names) {
```

```
  # Don't link to itself
  if($_ ne $manpage_title) {
   print LINKSFILE "$manpage_title.$manpage_sect $_.$manpage_sect\n";
  }
 }
});

man_sgml('<REFCLASS>', "\n.sp\n");

#RefDescriptor




##############################################################################
#
#
 SYNOPSIS section and synopses
#
##############################################################################

man_sgml('<REFSYNOPSISDIV>', "\n.SH SYNOPSIS\n");
man_sgml('</REFSYNOPSISDIV>', "\n");

## FIXME! Must be made into block elements!!
#sgml('<FUNCSYNOPSIS>', \&bold_on);
#sgml('</FUNCSYNOPSIS>', \&font_off);
#sgml('<CMDSYNOPSIS>', \&bold_on);
#sgml('</CMDSYNOPSIS>', \&font_off);

man_sgml('<FUNCSYNOPSIS>', sub {
 man_output("\n.sp\n");
 bold_on();
});
man_sgml('</FUNCSYNOPSIS>', sub {
 font_off();
 man_output("\n");
});

man_sgml('<CMDSYNOPSIS>', "\n\n");
man_sgml('</CMDSYNOPSIS>', "\n\n");

man_sgml('<FUNCPROTOTYPE>', "\n.sp\n");

# Arguments to functions.  This is C convention.
man_sgml('<PARAMDEF>', '(');
man_sgml('</PARAMDEF>', ");\n");
```

```
man_sgml('<VOID>', "(void);\n");



sub arg_start
{
 # my $choice = $_[0]->attribute('CHOICE')->value;

 # The content model for CmdSynopsis doesn't include #PCDATA,
 # so we won't see any of the whitespace in the source file,
 #
 so we have to add it after each component.
 output ' ';

 if($_[0]->attribute('CHOICE')->value =~ /opt/i) {
  output '[ ';
 }
 bold_on();
}
sub arg_end
{
 font_off();
 if($_[0]->attribute('REP')->value =~ /^Repeat/i) {
  italic_on();
  output ' ...';
  font_off();
 }
 if($_[0]->attribute('CHOICE')->value =~ /opt/i) {
  output '] ';
 }
}

sgml('<ARG>', \&arg_start);
sgml('</ARG>', \&arg_end);
sgml('<GROUP>', \&arg_start);
sgml('</GROUP>', \&arg_end);

sgml('<OPTION>', \&bold_on);
sgml('</OPTION>', \&font_off);

# FIXME: This is one _blank_ line.
man_sgml('<SBR>', "\n\n");



#############################################################################
#
# General sections
#
```

```
##############################################################################

# The name of the section is handled by TITLE.  This just sets
# up the roff markup.
man_sgml('<REFSECT1>', "\n.SH ");
man_sgml('<REFSECT2>', "\n.SS ");
man_sgml('<REFSECT3>', "\n.SS ");


##############################################################################
#
#
 Titles, metadata.
#
##############################################################################

sgml('<TITLE>', sub {
 if($_[0]->in('REFERENCE') or $_[0]->in('BOOK')) {
  $write_manpages = 1;
 }
 save_cdata();
});
sgml('</TITLE>', sub {
 my $title = fold_string(pop_output());
 $raw_cdata--;

 if($_[0]->in('REFERENCE') or $_[0]->in('BOOK')) {
  # We use TITLE of enclosing Reference or Book as manual name
  $manpage_manual = $title;
  $write_manpages = 0;
 }
 elsif(exists $_[0]->parent->ext->{'title'}) {
  # By far the easiest case.  Just fold the string as
  # above, and then set the parent element's variable.
  $_[0]->parent->ext->{'title'} = $title;
 }
 else {
  # If the parent element's handlers are lazy,
  # output the folded string for them :)
  # We assume they want uppercase and a newline.
  output '', uc($title), "\"\n";
  $newline_last = 1;
 }
});

sgml('<ATTRIBUTION>', sub { push_output('string') });
sgml('</ATTRIBUTION>', sub { $_[0]->parent->ext->{'attribution'}
```

```
 = pop_output(); });


# IGNORE.
sgml('<DOCINFO>', sub { push_output('nul'); });
sgml('</DOCINFO>', sub { pop_output(); });
sgml('<REFSECT1INFO>', sub { push_output('nul'); });
sgml('</REFSECT1INFO>', sub { pop_output(); });
sgml('<REFSECT2INFO>', sub { push_output('nul'); });
sgml('</REFSECT2INFO>', sub { pop_output(); });
sgml('<REFSECT3INFO>', sub { push_output('nul'); });
sgml('</REFSECT3INFO>', sub { pop_output(); });

sgml('<INDEXTERM>', sub { push_output('nul'); });
sgml('</INDEXTERM>', sub { pop_output(); });


##########################################################################
#
# Set bold on enclosed content
#
##########################################################################

sgml('<APPLICATION>', \&bold_on); sgml('</APPLICATION>', \&font_off);

sgml('<CLASSNAME>', \&bold_on);  sgml('</CLASSNAME>', \&font_off);
sgml('<STRUCTNANE>', \&bold_on); sgml('</STRUCTNAME>', \&font_off);
sgml('<STRUCTFIELD>', \&bold_on); sgml('</STRUCTFIELD>', \&font_off);
sgml('<SYMBOL>',
 \&bold_on);  sgml('</SYMBOL>', \&font_off);
sgml('<TYPE>', \&bold_on);  sgml('</TYPE>', \&font_off);

sgml('<ENVAR>', \&bold_on); sgml('</ENVAR>', \&font_off);

sgml('<FUNCTION>', \&bold_on); sgml('</FUNCTION>', \&font_off);

sgml('<EMPHASIS>', \&bold_on); sgml('</EMPHASIS>', \&font_off);

sgml('<ERRORNAME>', \&bold_on); sgml('</ERRORNAME>', \&font_off);
# ERRORTYPE

sgml('<COMMAND>', \&bold_on); sgml('</COMMAND>', \&font_off);

sgml('<GUIBUTTON>', \&bold_on); sgml('</GUIBUTTON>', \&font_off);
sgml('<GUIICON>', \&bold_on); sgml('</GUIICON>', \&font_off);
# GUILABEL
# GUIMENU
# GUIMENUITEM
```

```
# GUISUBMENU
# MENUCHOICE
# MOUSEBUTTON

sgml('<ACCEL>', \&bold_on); sgml('</ACCEL>', \&font_off);
sgml('<KEYCAP>', \&bold_on); sgml('</KEYCAP>', \&font_off);
sgml('<KEYSYM>', \&bold_on); sgml('</KEYSYM>', \&font_off);
# KEYCODE
# KEYCOMBO
# SHORTCUT

sgml('<USERINPUT>', \&bold_on); sgml('</USERINPUT>', \&font_off);

sgml('<INTERFACEDEFINITION>', \&bold_on);
sgml('</INTERFACEDEFINITION>', \&font_off);

#
 May need to look at the CLASS
sgml('<SYSTEMITEM>', \&bold_on);
sgml('</SYSTEMITEM>', \&font_off);




##############################################################################
#
# Set italic on enclosed content
#
##############################################################################

sgml('<FIRSTTERM>', \&italic_on); sgml('</FIRSTTERM>', \&font_off);

sgml('<FILENAME>', \&italic_on); sgml('</FILENAME>', \&font_off);
sgml('<PARAMETER>', \&italic_on); sgml('</PARAMETER>', \&font_off);
sgml('<PROPERTY>', \&italic_on); sgml('</PROPERTY>', \&font_off);

sgml('<REPLACEABLE>', sub {
 italic_on();
 if($_[0]->in('TOKEN')) {
  # When tokenizing, follow more 'intuitive' convention
  output "<";
 }
});
sgml('</REPLACEABLE>', sub {
 if($_[0]->in('TOKEN')) {
  output ">";
 }
```

```
 font_off();
});

sgml('<CITETITLE>', \&italic_on); sgml('</CITETITLE>', \&font_off);
sgml('<FOREIGNPHRASE>', \&italic_on); sgml('</FOREIGNPHRASE>', \&font_off);

sgml('<LINEANNOTATION>', \&italic_on); sgml('</LINEANNOTATION>',
 \&font_off);




##############################################################################
#
# Other 'inline' elements
#
##############################################################################

man_sgml('<EMAIL>', '<');
man_sgml('</EMAIL>', '>');
man_sgml('<OPTIONAL>', '[');
man_sgml('</OPTIONAL>', ']');

man_sgml('</TRADEMARK>', "\\u\\s-2TM\\s+2\\d");

man_sgml('<COMMENT>', "[Comment: ");
man_sgml('</COMMENT>', "]");

man_sgml('<QUOTE>', "``");
man_sgml('</QUOTE>', "''");

#man_sgml('<LITERAL>', "");
#man_sgml('</LITERAL>', "");

# No special presentation:

# AUTHOR
# AUTHORINITIALS

# ABBREV
# ACTION
# ACRONYM
# ALT
# CITATION
# PHRASE
# QUOTE
```

```
# WORDASWORD

# COMPUTEROUTPUT
# MARKUP
# PROMPT
# RETURNVALUE
# SGMLTAG
# TOKEN

# DATABASE
# HARDWARE
# INTERFACE
# MEDIALABEL

# There doesn't seem to be a good way to represent LITERAL in -man



##############################################################################
#
# Paragraph and paragraph-like elements
#
##############################################################################

sub
 para_start {
 output "\n" unless $newline_last++;

 # In lists, etc., don't start paragraph with .PP since
 # the indentation will be gone.

 if($_[0]->parent->ext->{'nobreak'}==1) {
  # Usually this is the FIRST element of
  # a hanging tag, so we MUST not do a full
  # paragraph break.
  $_[0]->parent->ext->{'nobreak'} = 2;
 } elsif($_[0]->parent->ext->{'nobreak'}==2) {
  # Usually these are the NEXT elements of
  # a hanging tag.  If we break using a blank
  # line, we're okay.
  output "\n";
 } else {
  # Normal case. (For indented blocks too, at least
  # -man isn't so braindead in this area.)
  output ".PP\n";
 }
}
# Actually applies to a few other block elements as well
```

```
sub para_end {
 output "\n" unless $newline_last++;
}

sgml('<PARA>', \&para_start);
sgml('</PARA>', \&para_end);
sgml('<SIMPARA>', \&para_start);
sgml('</SIMPARA>', \&para_end);

# Nothing special, except maybe FIXME set nobreak.
sgml('<INFORMALEXAMPLE>',
 \&para_start);
sgml('</INFORMALEXAMPLE>', \&para_end);




##############################################################################
#
# Blocks using SS sections
#
##############################################################################

# FIXME: We need to consider the effects of SS
# in a hanging tag :(

# Complete with the optional-title dilemma (again).
sgml('<ABSTRACT>', sub {
 $_[0]->ext->{'title'} = 'ABSTRACT';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</ABSTRACT>', sub {
 my $content = pop_output();

 # As ABSTRACT is never on the same level as RefSect1,
 # this leaves us with only .SS in terms of -man macros.
 output ".SS \"", uc($_[0]->ext->{'title'}), "\"\n";

 output $content;
 output "\n" unless $newline_last++;
});

# Ah, I needed a break.  Example always has a title.
man_sgml('<EXAMPLE>', "\n.SS ");
sgml('</EXAMPLE>', \&para_end);
```

```
# Same with sidebar.
man_sgml('<SIDEBAR>', "\n.SS ");
sgml('</SIDEBAR>', \&para_end);

# NO title.
man_sgml('<HIGHLIGHTS>',
 "\n.SS HIGHLIGHTS\n");
sgml('</HIGHLIGHTS>', \&para_end);




##############################################################################
#
# Indented 'Block' elements
#
##############################################################################

sub indent_block_start
{
 output "\n" unless $newline_last++;
 output ".sp\n.RS\n";
}
sub indent_block_end
{
 output "\n" unless $newline_last++;
 output ".RE\n";
}

# This element is almost like an admonition (below),
# only the default title is blank :)

sgml('<BLOCKQUOTE>', sub {
 $_[0]->ext->{'title'} = '';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</BLOCKQUOTE>', sub {
 my $content = pop_output();

 indent_block_start();

 if($_[0]->ext->{'title'}) {
  output ".B \"", $_[0]->ext->{'title'}, ":\"\n";
 }

 output $content;
```

```
 if($_[0]->ext->{'attribution'}) {
  output "\n" unless $newline_last++;
  # One place where roff's space-sensitivity makes sense :)
  output "\n               -- ";
  output
 $_[0]->ext->{'attribution'} . "\n";
 }

 indent_block_end();
});

# Set off admonitions from the rest of the text by indenting.
# FIXME: Need to check if this works inside paragraphs, not enclosing them.
sub admonition_end {
 my $content = pop_output();

 indent_block_start();

 # When the admonition is only one paragraph,
 # it looks nicer if the title was inline.
 my $num_para;
 while ($content =~ /^\.PP/gm) { $num_para++ }
 if($num_para==1) {
  $content =~ s/^\.PP\n//;
 }

 output ".B \"" . $_[0]->ext->{'title'} . ":\"\n";
 output $content;

 indent_block_end();
}

sgml('<NOTE>', sub {
 # We can't see right now whether or not there is a TITLE
 # element, so we have to save the output now and add it back
 # at the end of this admonition.
 $_[0]->ext->{'title'} = 'Note';

 # Although admonition_end's indent_block_start will do this,
 # we need to synchronize the output _now_
 output "\n" unless $newline_last++;

 push_output('string');
});
sgml('</NOTE>', \&admonition_end);

#
```

```
 Same as above.
sgml('<WARNING>', sub {
 $_[0]->ext->{'title'} = 'Warning';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</WARNING>', \&admonition_end);

sgml('<TIP>', sub {
 $_[0]->ext->{'title'} = 'Tip';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</TIP>', \&admonition_end);
sgml('<CAUTION>', sub {
 $_[0]->ext->{'title'} = 'Caution';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</CAUTION>', \&admonition_end);

sgml('<IMPORTANT>', sub {
 $_[0]->ext->{'title'} = 'Important';
 output "\n" unless $newline_last++;
 push_output('string');
});
sgml('</IMPORTANT>', \&admonition_end);









##############################################################################
#
# Verbatim displays.
#
##############################################################################

sub verbatim_start {
 output "\n" unless $newline_last++;
```

```
 if($_[0]->parent->ext->{'nobreak'}==1) {
  # Usually this is the FIRST element of
  #
 a hanging tag, so we MUST not do a full
  # paragraph break.
  $_[0]->parent->ext->{'nobreak'} = 2;
 } else {
  output "\n";
 }

 output(".nf\n") unless $nocollapse_whitespace++;
}

sub verbatim_end {
 output "\n" unless $newline_last++;
 output(".fi\n") unless --$nocollapse_whitespace;
}

sgml('<PROGRAMLISTING>', \&verbatim_start);
sgml('</PROGRAMLISTING>', \&verbatim_end);

sgml('<SCREEN>', \&verbatim_start);
sgml('</SCREEN>', \&verbatim_end);

sgml('<LITERALLAYOUT>', \&verbatim_start);
sgml('</LITERALLAYOUT>', \&verbatim_end);

#sgml('<SYNOPSIS>', sub {
# if($_[0]->attribute('FORMAT')->value =~ /linespecific/i) {
#  &verbatim_start;
# } else {
#  roffcmd("");
# }
#});
#
#sgml('</SYNOPSIS>', sub {
# if($_[0]->attribute('FORMAT')->value =~ /linespecific/i) {
#  &verbatim_end;
# }
# else {
#  roffcmd("");# not sure about this.
# }
#});
sgml('<SYNOPSIS>', \&verbatim_start);
sgml('</SYNOPSIS>', \&verbatim_end);
```

```
#############################################################################
#
#
 Lists
#
#############################################################################

# Indent nested lists.
sub indent_list_start {
 if($list_nestlevel++) {
  output "\n" unless $newline_last++;
  output ".RS\n";
 }
}
sub indent_list_end {
 if(--$list_nestlevel) {
  output "\n" unless $newline_last++;
  output ".RE\n";
 }
}

sgml('<VARIABLELIST>', \&indent_list_start);
sgml('</VARIABLELIST>', \&indent_list_end);
sgml('<ITEMIZEDLIST>', \&indent_list_start);
sgml('</ITEMIZEDLIST>', \&indent_list_end);
sgml('<ORDEREDLIST>', sub {
 indent_list_start();
 $_[0]->ext->{'count'} = 1;
});
sgml('</ORDEREDLIST>', \&indent_list_end);

# Output content on one line, bolded.
sgml('<TERM>', sub {
 output "\n" unless $newline_last++;
 output ".TP\n";
 bold_on();
 push_output('string');
});
sgml('</TERM>', sub {
 my $term = pop_output();
 $term =~ tr/\n/ /;
 output $term;
```

```
 font_off();
 output "\n";
 $newline_last = 1;
});

sgml('<LISTITEM>', sub {
 # A bulleted list.
 if($_[0]->in('ITEMIZEDLIST'))
 {
  output "\n" unless $newline_last++;
  output ".TP 0.2i\n\\(bu\n";
 }

 # Need numbers.
 # Assume Arabic numeration for now.
 elsif($_[0]->in('ORDEREDLIST')) {
  output "\n" unless $newline_last++;
  output ".TP ", $_[0]->parent->ext->{'count'}++, ". \n";
 }

 $_[0]->ext->{'nobreak'} = 1;
});

sgml('<SIMPLELIST>', sub {
 $_[0]->ext->{'first_member'} = 1;
});

sgml('<MEMBER>', sub {
 my $parent = $_[0]->parent;

 if($parent->attribute('TYPE')->value =~ /Inline/i) {
  if($parent->ext->{'first_member'}) {
   # If this is the first member don't put any commas
   $parent->ext->{'first_member'} = 0;
  } else {
   output ", ";
  }
 } elsif($parent->attribute('TYPE')->value =~ /Vert/i) {
  output "\n" unless $newline_last++;
  output "\n";
 }
});
```

```
##############################################################################
```

```
#
# Stuff we don't know how to handle (yet)
#
#################################################################################

# Address blocks:

# Credit stuff:
#
 ACKNO
# ADDRESS
# AFFILIATION
# ARTPAGENUMS
# ATTRIBUTION
# AUTHORBLURB
# AUTHORGROUP
# OTHERCREDIT
# HONORIFIC

# Areas:
# AREA
# AREASET
# AREASPEC




#################################################################################
#
# Linkage, cross references
#
#################################################################################

# Print the URL
sgml('</ULINK>', sub {
# output ' <URL:', $_[0]->attribute('URL')->value, '>';
 $newline_last = 0;
});

# If cross reference target is a RefEntry,
# output CiteRefEntry-style references.
sgml('<XREF>', sub {
 my $id = $_[0]->attribute('LINKEND')->value;
 my $manref = $Refs->get("refentry:$id");

 if($manref) {
  my ($title, $sect) = ($manref =~ /(.*)(\(.*\))/);
```

```
 bold_on();
 output $title;
 font_off();
 output $sect;
} else {
 $blank_xrefs++ if $write_manpages;
 output "[XRef to $id]";
}

 $newline_last = 0;
});

# Anchor




#############################################################################
#
# Other handlers
#
#############################################################################

man_sgml('|[lt
   ]|', '<');
man_sgml('|[gt    ]|', '>');
man_sgml('|[amp   ]|', '&');

#
# Default handlers (uncomment these if needed).  Right now, these are set
# up to gag on any unrecognised elements, sdata, processing-instructions,
# or entities.
#
# sgml('start_element',sub { die "Unknown element: " . $_[0]->name; });
# sgml('end_element',");

# This is for weeding out and escaping certain characters.
# This looks like it's inefficient since it's done on every line, but
# in reality, SGMLSpm and sgmlspl parsing ESIS takes _much_ longer.

sgml('cdata', sub
{
 if(!$write_manpages) { return; }
 elsif($raw_cdata) { output $_[0]; return; }

 # Escape backslashes
 $_[0] =~ s/\\/\\\\/g;
```

```
 # In non-'pre'-type elements:
 if(!$nocollapse_whitespace) {
  # Change tabs to spaces
  $_[0] =~ tr/\t/ /;

  # Do not allow indents at beginning of line
  # groff chokes on that.
  if($newline_last) {
   $_[0] =~ s/^ +//;

   # If the
 line is all blank, don't do anything.
   if($_[0] eq '') { return; }

   $_[0] =~ s/^\./\\\&\./;

   # Argh... roff doesn't like ' either...
   $_[0] =~ s/^\'/\\\&\'/;
  }
 }

 $newline_last = 0;

 output $_[0];
});


# When in whitespace-collapsing mode, we disallow consecutive newlines.

sgml('re', sub
{
 if($nocollapse_whitespace || !$newline_last) {
  output "\n";
 }

 $newline_last = 1;
});

sgml('sdata',sub { die "Unknown SDATA: " . $_[0]; });
sgml('pi',sub { die "Unknown processing instruction: " . $_[0]; });
sgml('entity',sub { die "Unknown external entity: " . $_[0]->name; });
sgml('start_subdoc',sub { die "Unknown subdoc entity: " . $_[0]->name; });
sgml('end_subdoc','');
sgml('conforming','');

1;
```

Found in path(s):

* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/docbook2man-spec.pl
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* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
*   P I N G . C
*
 * Using the InterNet Control Message Protocol (ICMP) "ECHO" facility,
* measure round-trip-delays and packet loss across network paths.
*
* Author -
* Mike Muuss

* U. S. Army Ballistic Research Laboratory
* December, 1983
*
* Status -
* Public Domain. Distribution Unlimited.
* Bugs -
* More statistics could always be gathered.
* This program has to run SUID to ROOT to access the ICMP socket.
*/

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* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/ping.c
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* arping.c
*
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* as published by the Free Software Foundation; either version
* 2 of the License, or (at your option) any later version.
*
* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
*/

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* rarpd.c RARP daemon.
*
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* 2 of the License, or (at your option) any later version.
*
* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
*/

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* tracepath6.c
*
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*
* Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
*/

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* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/clockdiff.sgml
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/tracepath.sgml
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/rarpd.sgml
*
/iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/traceroute6.sgml
* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/doc/pg3.sgml
No license file was found, but licenses were detected in source scan.

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*
/iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils_20070202.orig.tar.gz-cosi-expand-archive-ISvelYL2/iputils-20070202/traceroute6.c
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--- iputils/new/LICENSE 2004-06-15 13:21:29.000000000 -0700
+++ iputils/LICENSE 2004-06-15 13:18:37.000000000 -0700
@@ -0,0 +1,49 @@
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+It was downloaded from ftp://ftp.inr.ac.ru/ip-routing/
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+++ iputils/debian/copyright 2004-06-15 13:18:37.000000000 -0700
@@ -0,0 +1,49 @@
+This package was debianized by Anthony Towns <ajt@debian.org> on
+Sat,  5 Aug 2000 19:51:36 +1000.
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* /iputils-20070202-1.0.0.0704076.src.rpm-cosi-expand-archive-O4SrkeQI/iputils-license.patch

1.42 gmp 6.3.0

1.42.1 Available under license :

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1.44 bash 5.2.21

1.44.1 Available under license :

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

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

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

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

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

 # Replace multiple spaces with a single space
```

```
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

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

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

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

 # Output the MD5 sum
 echo "$MD5SUM"
}

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

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
```

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1.52 iperf 3.16

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*
* stdio.c
* by Mark Gates <mgates@nlanr.net>
```

```
 * and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>
 * ------------------------------------------------------------------
 * input and output numbers, converting with kilo, mega, giga
 * ------------------------------------------------------------------ */
```

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1.53 nghttp2 1.61.0

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
mruby-set

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1.55 kexec-tools 2.0.28

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1.56 pkix ssh 13.5

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- RSA is no longer included, found in the OpenSSL library

- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
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*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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DAMAGE.
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Section 6 states terms for distribution of such executables.

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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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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

e) Verify that the user has already received a copy of these
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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
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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2.5	2.4	2006	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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3.1.2	3.1	2010	PSF	yes
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==========
Distutils2 Contributors
==========

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
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- Nadeem Vawda
Metadata-Version: 1.0
Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!
Home-page: http://pypi.org/pypi/setuptools
Author: Phillip J. Eby
Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: ==============================
    Installing and Using Setuptools
    ==============================

    .. contents:: **Table of Contents**

    Installation Instructions

    Windows
    =======

Install setuptools using the provided ``.exe`` installer. If you've previously
installed older versions of setuptools, please delete all ``setuptools*.egg``
and ``setuptools.pth`` files from your system's ``site-packages`` directory
(and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using
an ``.exe`` installer,
please be sure to also *uninstall that older version*
via your system's "Add/Remove Programs" feature, BEFORE installing the newer
version.

Once installation is complete, you will find an ``easy_install.exe`` program in
your Python ``Scripts`` subdirectory. Be sure to add this directory to your
``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems
==========

Install setuptools using the provided source RPM. The included ``.spec`` file
assumes you are installing using the default ``python`` executable, and is not
specific to a particular Python version. The ``easy_install`` executable will
be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python
installation's default ``site-packages`` directory (and ``$prefix/bin`` for
scripts), please use the ``.egg``-based
installation approach described in the
following section.

Cygwin, Mac OS X, Linux, Other
==========

1. Download the appropriate egg for your version of Python (e.g.
``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.

2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``.
Setuptools will install itself using the matching version of Python (e.g.
``python2.4``), and will place the ``easy_install`` executable in the
default location for installing Python scripts (as determined by the
standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or
your default distutils installation locations for libraries and scripts, you
may include EasyInstall command-line options such as ``--prefix``,
``--install-dir``, and so on, following the ``.egg`` filename

on the same
command line. For example::

sh setuptools-0.6c9-py2.4.egg --prefix=~

You can use ``--help`` to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially `the section
on custom installation locations`_.

.. _EasyInstall manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _the section on custom installation locations: http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python
(as opposed to the Cygwin version that lives in ``/usr/bin``), you must make
sure that an appropriate executable (``python2.3``, ``python2.4``, or
``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For
example, doing the following at a Cygwin bash prompt will install setuptools
for the **Windows** Python found at ``C:\\Python24``::

ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: http://pypi.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

---
Using

Setuptools and EasyInstall

    Here are some of the available manuals, tutorials, and other resources for
    learning about Setuptools, Python Eggs, and EasyInstall:

    * `The EasyInstall user's guide and reference manual`_
    * `The setuptools Developer's Guide`_
    * `The pkg_resources API reference`_
    * `Package Compatibility Notes`_ (user-maintained)
    * `The Internal Structure of Python Eggs`_

    Questions, comments, and bug reports should be directed to the `distutils-sig
    mailing list`_. If you have written (or know of) any tutorials, documentation,
    plug-ins, or other resources for setuptools users, please let us know about
    them there, so this reference list can be updated. If you have working,
    tested patches to correct problems or add features, you may submit them to
    the `setuptools bug tracker`_.

    .. _setuptools bug tracker: http://bugs.python.org/setuptools/
     .. _Package Compatibility Notes: http://peak.telecommunity.com/DevCenter/PackageNotes
    .. _The Internal Structure of Python Eggs: http://peak.telecommunity.com/DevCenter/EggFormats
    .. _The setuptools Developer's Guide: http://peak.telecommunity.com/DevCenter/setuptools
    .. _The pkg_resources API reference: http://peak.telecommunity.com/DevCenter/PkgResources
    .. _The EasyInstall user's guide and reference manual: http://peak.telecommunity.com/DevCenter/EasyInstall
    .. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

    Credits
    ----

    * The original design for the ``.egg`` format and the ``pkg_resources`` API was
    co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first
    version of ``pkg_resources``, and supplied the OS X operating system version
    compatibility algorithm.

    * Ian Bicking implemented many early "creature
comfort" features of
    easy_install, including support for downloading via Sourceforge and
    Subversion repositories. Ian's comments on the Web-SIG about WSGI
    application deployment also inspired the concept of "entry points" in eggs,
    and he has given talks at PyCon and elsewhere to inform and educate the
    community about eggs and setuptools.

    * Jim Fulton contributed time and effort to build automated tests of various
    aspects of ``easy_install``, and supplied the doctests for the command-line
    ``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and
first proposed the idea of an importable binary distribution format for
Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open
Source Applications Foundation, to provide a plug-in infrastructure for the
Chandler PIM application.

In addition, many OSAF staffers (such as Mike
"Code Bear" Taylor) contributed their time and stress as guinea pigs for the
use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

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  02110-1301, USA.  */


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#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this.  These are
   used as arguments to the function __VLTChangePermission, declared
   below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#elif defined(__loongarch_lp64)
/* The page size is configurable by the kernel to
 be 4, 16 or 64 KiB.
   For now, only the default page size of 16KiB is supported.  */
#define VTV_PAGE_SIZE 16384
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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This option is useful when you wish to copy part of the code of

the
Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

which the executable runs, unless that component itself accompanies the executable.

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

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

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END OF TERMS AND CONDITIONS

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

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1. Source Code.

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

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

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

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in

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1.68 pcre2 10.44

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1.69 glib 2.84.1

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1.73 pkix ssh 16.1.1

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

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

```
#include <sys/types.h>
#ifdef HAVE_POLL_H
# include <poll.h>
#else
# ifdef HAVE_SYS_POLL_H
#  include <sys/poll.h>
# endif
#endif

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

#ifndef POLLIN
# define POLLIN  0x0001
#endif
#ifndef POLLPRI
# define POLLPRI 0x0002
#endif
#ifndef POLLOUT
# define POLLOUT 0x0004
#endif
#ifndef POLLERR
# define POLLERR 0x0008
#endif
#ifndef POLLHUP
# define POLLHUP 0x0010
#endif
#ifndef POLLNVAL
# define POLLNVAL 0x0020
#endif

#if 0
/*
 the following are currently not implemented */
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not standard */
#endif /* !HAVE_STRUCT_POLLFD_FD */
```

```
#ifndef HAVE_NFDS_T
/* on most used systems is ...long... */
typedef unsigned long int nfds_t;
#endif

#ifndef HAVE_POLL
int   poll(struct pollfd *, nfds_t, int);
#endif

#ifndef HAVE_PPOLL
int   ppoll(struct pollfd *, nfds_t, const struct timespec *, const sigset_t *);
#endif

#endif /* !_COMPAT_POLL_H_ */
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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 */
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```

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

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*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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------
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*/

#include "includes.h"

#if !defined(HAVE_STATVFS) || !defined(HAVE_FSTATVFS)
```

```
#include <sys/types.h>

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif
#ifdef HAVE_SYS_STATFS_H
#include <sys/statfs.h>
#endif
#ifdef
 HAVE_SYS_VFS_H
#include <sys/vfs.h>
#endif

#ifndef HAVE_FSBLKCNT_T
typedef unsigned long fsblkcnt_t;
#endif
#ifndef HAVE_FSFILCNT_T
typedef unsigned long fsfilcnt_t;
#endif

#ifndef ST_RDONLY
#define ST_RDONLY 1
#endif
#ifndef ST_NOSUID
#define ST_NOSUID 2
#endif

 /* as defined in IEEE Std 1003.1, 2004 Edition */
struct statvfs {
 unsigned long f_bsize; /* File system block size. */
 unsigned long f_frsize; /* Fundamental file system block size. */
 fsblkcnt_t f_blocks; /* Total number of blocks on file system in */
   /* units of f_frsize. */
 fsblkcnt_t    f_bfree; /* Total number of free blocks. */
 fsblkcnt_t    f_bavail; /* Number of free blocks available to  */
   /* non-privileged process.  */
 fsfilcnt_t    f_files; /* Total number of file serial numbers. */
 fsfilcnt_t    f_ffree; /* Total number of free file serial numbers. */
 fsfilcnt_t    f_favail; /* Number of file serial numbers available to */
   /* non-privileged process. */
 unsigned long f_fsid; /*
 File system ID. */
 unsigned long f_flag; /* BBit mask of f_flag values. */
 unsigned long f_namemax;/*  Maximum filename length. */
};
#endif
```

```
#ifndef HAVE_STATVFS
int statvfs(const char *, struct statvfs *);
#endif

#ifndef HAVE_FSTATVFS
int fstatvfs(int, struct statvfs *);
#endif
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#ifndef _BSD_MISC_H
#define _BSD_MISC_H

#include "includes.h"

char *ssh_get_progname(char *);

#ifndef HAVE_SETSID
#define setsid() setpgrp(0,
 getpid())
#endif /* !HAVE_SETSID */

#ifndef HAVE_SETENV
int setenv(const char *, const char *, int);
#endif /* !HAVE_SETENV */

#ifndef HAVE_SETLOGIN
int setlogin(const char *);
#endif /* !HAVE_SETLOGIN */

#ifndef HAVE_INNETGR
int innetgr(const char *, const char *, const char *, const char *);
#endif /* HAVE_INNETGR */
```

```
#if !defined(HAVE_SETEUID) && defined(HAVE_SETREUID)
int seteuid(uid_t);
#endif /* !defined(HAVE_SETEUID) && defined(HAVE_SETREUID) */

#if !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID)
int setegid(uid_t);
#endif /* !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID) */

#if !defined(HAVE_STRERROR) && defined(HAVE_SYS_ERRLIST) && defined(HAVE_SYS_NERR)
const char *strerror(int);
#endif

#if !defined(HAVE_SETLINEBUF)
#define setlinebuf(a) (setvbuf((a), NULL, _IOLBF, 0))
#endif

#ifndef HAVE_UTIMES
#ifndef HAVE_STRUCT_TIMEVAL
struct timeval {
 long tv_sec;
 long tv_usec;
}
#endif /* HAVE_STRUCT_TIMEVAL */

int utimes(const char *, const struct timeval *);
#endif
 /* HAVE_UTIMES */

#include <fcntl.h> /* For AT_FDCWD */
#ifndef AT_FDCWD
# define AT_FDCWD (-2)
#endif

#ifndef HAVE_FCHMODAT
int fchmodat(int, const char *, mode_t, int);
#endif

#ifndef HAVE_FCHOWNAT
int fchownat(int, const char *, uid_t, gid_t, int);
#endif

#ifndef HAVE_TRUNCATE
int truncate (const char *, off_t);
#endif /* HAVE_TRUNCATE */

#ifndef HAVE_STRUCT_TIMESPEC
struct timespec {
 time_t tv_sec;
```

```
 long tv_nsec;
};
#endif /* !HAVE_STRUCT_TIMESPEC */

#if !defined(HAVE_NANOSLEEP) && !defined(HAVE_NSLEEP)
int nanosleep(const struct timespec *, struct timespec *);
#endif

#ifndef HAVE_UTIMENSAT
/* start with the high bits and work down to minimise risk of overlap */
# ifndef AT_SYMLINK_NOFOLLOW
#  define AT_SYMLINK_NOFOLLOW 0x80000000
# endif
int utimensat(int, const char *, const struct timespec[2], int);
#endif /* !HAVE_UTIMENSAT */

#ifndef HAVE_USLEEP
int usleep(unsigned int useconds);
#endif

#ifndef HAVE_TCGETPGRP
pid_t tcgetpgrp(int);
#endif

#ifndef HAVE_TCSENDBREAK
int
 tcsendbreak(int, int);
#endif

#ifndef HAVE_UNSETENV
int unsetenv(const char *);
#endif

#ifndef HAVE_ISBLANK
int isblank(int);
#endif

#ifndef HAVE_GETPGID
pid_t getpgid(pid_t);
#endif

#ifndef HAVE_PSELECT
/* may require struct timespec declared above */
int pselect(int, fd_set *, fd_set *, fd_set *, const struct timespec *,
   const sigset_t *);
#endif

#if !HAVE_DECL_ENDGRENT
```

```
void endgrent(void);
#endif

#ifndef HAVE_ENDGRENT
static inline void endgrent(void) {}
#endif

#if !HAVE_DECL_ENDPWENT
void endpwent(void);
#endif

#ifdef KRB5
#ifndef HAVE_KRB5_GET_ERROR_MESSAGE
# define krb5_get_error_message krb5_get_err_text
#endif

#ifndef HAVE_KRB5_FREE_ERROR_MESSAGE
# define krb5_free_error_message(a,b) do { } while(0)
#endif
#endif /*def KRB5*/

#ifndef HAVE_PLEDGE
int pledge(const char *promises, const char *paths[]);
#endif

/* bsd-err.h */
#ifndef HAVE_ERR
void err(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_ERRX
void errx(int, const char *,
 ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_WARN
void warn(const char *, ...) __attribute__((format(printf, 1, 2)));
#endif

#ifndef HAVE_RAISE
int raise(int);
#endif

#ifndef HAVE_GETSID
pid_t getsid(pid_t);
#endif

#ifndef HAVE_FLOCK
# define LOCK_SH  0x01
# define LOCK_EX  0x02
```

```
# define LOCK_NB  0x04
# define LOCK_UN  0x08
int flock(int, int);
#endif

#ifdef FFLUSH_NULL_BUG
# define fflush(x) (_ssh_compat_fflush(x))
#endif

#ifndef HAVE_LOCALTIME_R
struct tm *localtime_r(const time_t *, struct tm *);
#endif

#endif /* _BSD_MISC_H */
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*
* Created: Sat Sep 02 12:17:00 2000 cv
*
* This file contains functions for forcing opened file descriptors to
* binary mode on Windows systems.
*/

#ifndef _BSD_CYGWIN_UTIL_H
#define _BSD_CYGWIN_UTIL_H

#ifdef HAVE_CYGWIN
```

```
#undef ERROR

/* Avoid including windows headers. */
typedef void *HANDLE;
#define INVALID_HANDLE_VALUE ((HANDLE) -1)
#define DNLEN 16
#define UNLEN 256

/* Cygwin functions for which declarations are only available when including
  windows headers, so we have to define them here explicitly. */
extern HANDLE cygwin_logon_user (const struct passwd *, const char *);
extern void cygwin_set_impersonation_token (const HANDLE);

#include
 <sys/cygwin.h>
#include <io.h>

#define CYGWIN_SSH_PRIVSEP_USER (cygwin_ssh_privsep_user())
const char *cygwin_ssh_privsep_user();

int binary_open(const char *, int , ...);
int check_ntsec(const char *);
char **fetch_windows_environment(void);
void free_windows_environment(char **);
int cygwin_ug_match_pattern_list(const char *, const char *);

#ifndef NO_BINARY_OPEN
#define open binary_open
#endif

#endif /* HAVE_CYGWIN */

#endif /* _BSD_CYGWIN_UTIL_H */
/*
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```

```
*/

#ifndef _BSD_SIGNAL_H
#define _BSD_SIGNAL_H

#include "includes.h"

#if !defined(HAVE_STRSIGNAL)
char *strsignal(int);
#endif

#endif /* _BSD_SIGNAL_H */
/*
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*/

#ifndef _NEXT_POSIX_H
#define _NEXT_POSIX_H

#ifdef HAVE_NEXT
#include <sys/dir.h>

/* NGROUPS_MAX is behind -lposix.  Use the BSD version which is NGROUPS */
#undef NGROUPS_MAX
#define NGROUPS_MAX NGROUPS
```

```
/* NeXT's readdir() is BSD (struct direct) not POSIX (struct dirent) */
#define dirent direct

/* Swap out NeXT's BSD wait() for a more POSIX compliant one */
pid_t posix_wait(int *);
#define wait(a) posix_wait(a)

/* #ifdef wrapped functions that need defining for clean compiling */
pid_t getppid(void);
void vhangup(void);
int innetgr(const char *, const char *, const char *, const char *);

/* TERMCAP */
int tcgetattr(int, struct termios *);
int tcsetattr(int, int,
 const struct termios *);
int tcsetpgrp(int, pid_t);
speed_t cfgetospeed(const struct termios *);
speed_t cfgetispeed(const struct termios *);
int cfsetospeed(struct termios *, int);
int cfsetispeed(struct termios *, int);
#endif /* HAVE_NEXT */
#endif /* _NEXT_POSIX_H */
/*
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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.74 openssh 10.0p2

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[The licence continues]

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*
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*
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1.75 lz4 1.10.5

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1.76 gnutls 3.8.10

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and valid for as
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
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the same way through the same place at no
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##
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1.79 python 3.14.0

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1.80 coreutils 8.30-3ubuntu2

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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1.85 pycryptodome 3.23.0

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1.88 sysv-init 3.01-1ubuntu1

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  lib/gssapi/generic/gssapi_err_generic.et
  lib/gssapi/mechglue/g_accept_sec_context.c
  lib/gssapi/mechglue/g_acquire_cred.c
  lib/gssapi/mechglue/g_canon_name.c
  lib/gssapi/mechglue/g_compare_name.c
  lib/gssapi/mechglue/g_context_time.c
  lib/gssapi/mechglue/g_delete_sec_context.c
  lib/gssapi/mechglue/g_dsp_name.c
  lib/gssapi/mechglue/g_dsp_status.c
  lib/gssapi/mechglue/g_dup_name.c
  lib/gssapi/mechglue/g_exp_sec_context.c
  lib/gssapi/mechglue/g_export_name.c
  lib/gssapi/mechglue/g_glue.c
  lib/gssapi/mechglue/g_imp_name.c
  lib/gssapi/mechglue/g_imp_sec_context.c
  lib/gssapi/mechglue/g_init_sec_context.c
  lib/gssapi/mechglue/g_initialize.c
  lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
  lib/gssapi/mechglue/g_inquire_names.c
  lib/gssapi/mechglue/g_process_context.c
  lib/gssapi/mechglue/g_rel_buffer.c
  lib/gssapi/mechglue/g_rel_cred.c
  lib/gssapi/mechglue/g_rel_name.c
  lib/gssapi/mechglue/g_rel_oid_set.c
  lib/gssapi/mechglue/g_seal.c
  lib/gssapi/mechglue/g_sign.c
  lib/gssapi/mechglue/g_store_cred.c
  lib/gssapi/mechglue/g_unseal.c
  lib/gssapi/mechglue/g_userok.c
  lib/gssapi/mechglue/g_utils.c
  lib/gssapi/mechglue/g_verify.c
  lib/gssapi/mechglue/gssd_pname_to_uid.c
  lib/gssapi/mechglue/mglueP.h
  lib/gssapi/mechglue/oid_ops.c
  lib/gssapi/spnego/gssapiP_spnego.h
  lib/gssapi/spnego/spnego_mech.c

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

  include/iprop_hdr.h

kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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   * Constructs a new {@link LocalVariableAnnotationNode}. Subclasses must
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   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *   a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *   the path to the annotated type argument, wildcard bound, array
   *   element type, or static inner type within 'typeRef'. May be
   *   <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *   the fist instructions corresponding to the continuous ranges
   *   that make the scope of this local variable (inclusive).
   * @param end
   *   the last instructions corresponding to the continuous ranges
   *   that make the scope of this local variable (exclusive). This
   *   array must have the same size as the 'start' array.
   * @param index
   *   the local variable's index in each range. This array must have
   *   the same size as the 'start' array.
   * @param desc
   *   the class descriptor of
 the annotation class.
   */

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   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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*/
/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/InsnNode.java
*
 /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/ClassReader.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Handle.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/ByteVector.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/CheckClassAdapter.java
*
 /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/ParameterNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/FieldVisitor.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
*
 /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/ClassVisitor.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/Value.java

* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/Remapper.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/TraceMethodVisitor.java
*
/asm-5-0-3-sources-4-jar/org/objectweb/asm/ClassWriter.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Handler.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Opcodes.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Context.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
*
/asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/IincInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/MethodVisitor.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/AnnotationVisitor.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/FieldWriter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
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*
/asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/FieldNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Item.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Type.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/CheckFieldAdapter.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/AnnotationNode.java

* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/TraceClassVisitor.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/SimpleRemapper.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/InsnList.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/IntInsnNode.java
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/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
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   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */

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*/
/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */

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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
*
/asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/xml/SAXAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/xml/Processor.java
*
 /asm-5-0-3-sources-4-jar/org/objectweb/asm/xml/SAXClassAdapter.java
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*/
/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
```

* If a subclass calls this constructor.
*/

Found in path(s):
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

1.91 txw2 2.3.1

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1.92 bcpkix-fips 2.0.8

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```
/**
   * Base constructor.
   * <p>
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   * </p>
   * <p>
   * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
   * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
   * If *.com is in the known suffixes list will not be allowed to match.
   * </p>
   *
   * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
   */
```

Found in path(s):
* /bcpkix-fips-2-0-8-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.93 platformdirs 4.5.0

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1.94 sqlite 3.37.2-2ubuntu0.5

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1.95 linux-libc-dev 5.4.0-150.167

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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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1.100 go-difflib 1.0.0

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1.107 pycparser 2.18

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pycparser -- A C parser in Python

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1.108 jetty-servlets 9.4.56.v20240826

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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1.109 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.110 python-certifi 2025.10.05

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.111 activation-api 1.2.0

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1.113 ncurses 6.3-2ubuntu0.1

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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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1.114 stax-ex 1.8

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Title: Extended StAX API
Implementation-Version: 1.8
Implementation-Vendor-Id: org.jvnet.staxex
Implementation-URL: http://stax-ex.java.net/
Implementation-Build-Id: ${scmBranch}-${buildNumber}, ${timestamp}
Bnd-LastModified: 1524563042303
Bundle-Description: Extensions to JSR-173 StAX API.
Bundle-License: https://glassfish.dev.java.net/public/CDDL+GPL_1_1.htm
l
Bundle-ManifestVersion: 2
Bundle-Name: Extended StAX API
Bundle-SymbolicName: org.jvnet.staxex.stax-ex
Bundle-Version: 1.8.0
Export-Package: org.jvnet.staxex;version="1.8.0";uses:="javax.activati
on,javax.xml.namespace,javax.xml.stream",org.jvnet.staxex.util;versio
n="1.8.0";uses:="javax.xml.bind.attachment,javax.xml.namespace,javax.
xml.stream,org.w3c.dom"
Import-Package: javax.activation,javax.xml.bind.attachment,javax.xml.n
amespace,javax.xml.stream,org.jvnet.staxex;version="[1.8,2)",org.w3c.
 dom
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=9.0))"
Tool: Bnd-3.5.0.201709291849

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* /stax-ex-1-8-9-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /stax-ex-1-8-9-jar/META-INF/maven/org.jvnet.staxex/stax-ex/pom.xml

1.115 spf13-pflag 1.0.6

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1.117 brotli 1.0.9-2build6

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1.119 dropwizard-client 2.1.11

1.119.1 Available under license :

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1.120 jsonpatch 5.9.11+incompatible

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1.121 jansson 2.13.1-1.1build3

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1.122 durationpy 0.10

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1.123 kustomize-kyaml 0.20.1

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This gmp package was built for Debian by

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 Philipp Matthias Hahn <pmhahn@debian.org>

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1.126 grpc-go 1.72.1

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The End

Perl5 Metaconfig Units

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These units are the ones used to build Configure and config_h.SH in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you installed dist). It will then recurse through the 'U' subdirectory and find any additional "private" units. Private units override standard ones supplied with metaconfig.

Files in this directory:

README
  This file.

Glossary.patch
  The standard dist units contain some strings that make pod2man
  complain. This patch silences those warnings. As new units are
  added and Configure is regenerated, this patch may need more and more
  'fuzz' to be applied. It should be freshly regenerated every once
  in a while. See also mkgloss.pl

ln-all.pl
  Re-generate the all/ folder

mkglossary
  A script to regenerate Porting/Glossary. You have to manually
  edit
 the top of the script to point the location of your metaconfig
  units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
  A perl script that calls U/mkglossary from the perl source tree, sorts
  the list of symbols, and applies the patch mentioned in Glossary.patch.
  When called on its own, redirect the output to a temporary file, and
  compare that file to Porting/Glossary before applying.

mksample
  A script to regenerate Porting/config.sh and Porting/config.H.
  It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
  These are units that have to go first in the generated config_h.SH.
  A word of explanation: Configure and config_h.SH are generated from 'Units'
  (the *.U files). Files indicate dependencies (using make(1)), and
  Configure is built to follow those dependencies. However, config_h.SH
  is simply built by putting
 all the units in alphabetical order and
  extracting the relevant lines. (This could be fixed, I suppose, but
  it wasn't trivial the one time I looked.)
  The a_dvisory/ directory, then, is a place to put units that need
  to be early in config_h.SH. (Most units are self-contained
  and ought to be able to go anywhere. However, some things, like

byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

all/
A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and related issues.

modified/
These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/
These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding unit.

perl/
These are specific to perl. Some
are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
  These are patches to the perl source. This directory
  should ordinarily be empty, but there may have been drift between
  the standard version of perl and the one associated with these
  units.

protos/
  These are units modified to use the new Hasproto.U or Protochk.U
  units to check for prototypes.

threads/
  These are specific to threading perl.

typedefs/
  These are standard units modified to use the modified Typedef.U
  unit to check for typedefs. (The modified Typdef.U includes a
  function to avoid unnecessary prompts if the typdef being searched
  for exists.)

Where appropriate, I submitted these units for inclusion into the
regular dist distribution. However, since dist is no longer actively
maintained, and the alternative is for *me* to actively maintain it,
the units just sit here.

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1.136 color 1.13.0

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1.140 protobuf 1.5.2

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1.141 libcap 1:2.44-1ubuntu0.22.04.2

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io.fabric8.kubernetes.client.okhttp.OkHttpClientFactory
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* /kubernetes-httpclient-okhttp-6-5-1-2-jar/META-INF/maven/io.fabric8/kubernetes-httpclient-okhttp/pom.xml

1.143 apache-http-server 2.4.52-1ubuntu4.16

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<meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />
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(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
     (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write(' Comments are disabled for this page at the moment.<\/div>');
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})(window, document);
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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*
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 *
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd

- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- jsp_2_3.xsd
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- web-common_3_1.xsd
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1.148 go-wordwrap 1.0.1

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

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1.150 pexpect 4.8.0

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1.151 log4j-api 2.17.1

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1.153 more-itertools 10.3.0

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1.154 tini 0.19.0-1

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1.155 sed 4.8-1ubuntu2

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1.157 python 3.10.6-1~22.04.1

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.162 easyjson 0.7.7

1.162.1 Available under license :

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SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.163 jackson-xc 2.13.5

1.163.1 Available under license :

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Jackson is a high-performance, Free/Open Source JSON processing library.
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1.164 gzip 1.12-1ubuntu3.1

1.164.1 Available under license :

/* Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:
```

```
 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
   * The 'basename' command eliminates trailing slashes and for a root
     produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
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                  Version 3, 29 June 2007

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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
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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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
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2.3.3				
2.3.2	2002-2003	PSF	yes	
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2.4	2.3	2004	PSF	yes
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1.170 libpkit 0.23.20-1ubuntu0.1

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1.171 acl 2.2.53-6

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code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris

Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc

Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
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Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai

Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
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Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van

Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger,
Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
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Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
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Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub

Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
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Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
erbnescu, Daniel
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Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield
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1.173 libffi 3.4.2-4

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.180 kube-openapi 0.0.0-20250710124328-f3f2b991d03b

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.182 sysv-init 3.08-6ubuntu3

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1.183 mpdecimal 2.5.1-2build2

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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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*
 /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8
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.\"
.\" @(#)bitstring.3 5.1
 (Berkeley) 12/13/89
.\"

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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

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*/

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have
no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally. (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in

any comp.sources.unix archive. You will also need to hack the code some.

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.\" */
.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"

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* Paul Vixie   <paul@vix.com>   uunet!decwrl!vixie!paul
*/

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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do this, I will continue to support and distribute the pseudo-PD version, so
please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into

ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

1.188 patch 2.7.6-6

1.188.1 Available under license :

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-->

Found in path(s):
* /kubernetes-model-node-6-5-1-2-jar/META-INF/maven/io.fabric8/kubernetes-model-node/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Build-Jdk-Spec: 1.8
Bundle-Description: Java client for Kubernetes and OpenShift
Bundle-DocURL: http://redhat.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: Node
Bundle-SymbolicName: io.fabric8.kubernetes-model-node
Bundle-Vendor: Red Hat
Bundle-Version: 6.5.1
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.api.model.node.v1;uses:="com.fas
terxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxm
l.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fa
bric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";ve
rsion="6.5.1",io.fabric8.kubernetes.api.model.node.v1alpha1;uses:="co
m.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fas
terxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,
io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotatio
n";version="6.5.1",io.fabric8.kubernetes.api.model.node.v1beta1;uses:
="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com
.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.buil
der,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annot
ation";version="6.5.1"
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
netes-model-node/
Import-Package: com.fasterxml.jackson.annotation;version="[2.14,3)",co
m.fasterxml.jackson.databind;version="[2.14,3)",com.fasterxml.jackson
.databind.annotation;version="[2.14,3)",io.fabric8.kubernetes.api.bui
lder;version="[6.5,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub
ernetes.model.annotation;version="[6.5,7)"
Include-Resource: META-INF/services/io.fabric8.kubernetes.api.model.Ku
bernetesResource=target/classes/META-INF/services/io.fabric8.kubernet
es.api.model.KubernetesResource,schema/kube-schema.json=src/main/reso
urces/schema/kube-schema.json,schema/validation-schema.json=src/main/

resources/schema/validation-schema.json,manifest.vm=src/main/resource
s/manifest.vm,/META-INF/jandex.idx=target/classes/META-INF/jandex.idx
Private-Package: schema
Provide-Capability: osgi.serviceloader;osgi.serviceloader="io.fabric8.
kubernetes.api.model.KubernetesResource"
Require-Capability: osgi.extender;filter:="(osgi.extender=osgi.service
loader.registrar)",osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git
/kubernetes-model-generator/kubernetes-model-node
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-node/
Specification-Title: Fabric8 :: Kubernetes Model :: Node
Specification-Vendor: Red Hat
Specification-Version: 6.5
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /kubernetes-model-node-6-5-1-2-jar/META-INF/MANIFEST.MF

1.193 govalidator 0.0.0-20230301143203-a9d515a09cc2

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1.194 jetty-security 9.4.57.v20241219

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.195 zstd 1.4.8+dfsg-3build1

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1.199 genproto-googleapis-rpc 0.0.0-20250303144028-a0af3efb3deb

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1.200 nghttp2 1.40.0-1ubuntu0.1

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set style histogram errorbars gap 2 lw 1
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1.201 jsr305 3.0.2

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* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/NotThreadSafe.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/ThreadSafe.java

1.202 gnutls 3.7.3-4ubuntu1.7

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```
/*  Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
 If FILENAME has some trailing slash(es), they are considered to be
 part of the last component.
 If FILENAME has no relative file name components because it is a file
 system root, return the empty string.
 Examples:
        FILENAME      RESULT
        "foo.c"       "foo.c"
        "foo/bar.c"   "bar.c"
        "/foo/bar.c"  "bar.c"
        "foo/bar/"    "bar/"
```

```
            "foo/bar//"   "bar//"
            "/"           ""
            "//"          ""
            ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
     * Various platforms have different functions in their libc.
       In particular, the glibc basename(), defined in <string.h>, does
       not consider trailing slashes to be part of the component:
            FILENAME
       RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
     * The 'basename' command eliminates trailing slashes and for a root
       produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
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##
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1.207 jersey-client 2.41

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* /gson-2-10-sources-jar/com/google/gson/ExclusionStrategy.java
* /gson-2-10-sources-jar/com/google/gson/internal/$Gson$Preconditions.java
* /gson-2-10-sources-jar/com/google/gson/JsonElement.java
* /gson-2-10-sources-jar/com/google/gson/JsonPrimitive.java
* /gson-2-10-sources-jar/com/google/gson/JsonSerializer.java
* /gson-2-10-sources-jar/com/google/gson/InstanceCreator.java
* /gson-2-10-sources-jar/com/google/gson/internal/Excluder.java
* /gson-2-10-sources-jar/com/google/gson/JsonDeserializationContext.java
* /gson-2-10-sources-jar/com/google/gson/JsonIOException.java
* /gson-2-10-sources-jar/com/google/gson/JsonArray.java
* /gson-2-10-sources-jar/com/google/gson/JsonObject.java
* /gson-2-10-sources-jar/com/google/gson/JsonDeserializer.java
*
 /gson-2-10-sources-jar/com/google/gson/GsonBuilder.java
* /gson-2-10-sources-jar/com/google/gson/JsonParseException.java
* /gson-2-10-sources-jar/com/google/gson/annotations/SerializedName.java
* /gson-2-10-sources-jar/com/google/gson/Gson.java
* /gson-2-10-sources-jar/com/google/gson/reflect/TypeToken.java
* /gson-2-10-sources-jar/com/google/gson/JsonNull.java
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Found in path(s):
* /gson-2-10-sources-jar/com/google/gson/internal/JavaVersion.java
* /gson-2-10-sources-jar/com/google/gson/internal/PreJava9DateFormatProvider.java
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Found in path(s):
* /gson-2-10-sources-jar/com/google/gson/FieldAttributes.java
* /gson-2-10-sources-jar/com/google/gson/JsonStreamParser.java
* /gson-2-10-sources-jar/com/google/gson/LongSerializationPolicy.java
* /gson-2-10-sources-jar/com/google/gson/JsonParser.java
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Found in path(s):
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* /gson-2-10-sources-jar/com/google/gson/stream/JsonScope.java
* /gson-2-10-sources-jar/com/google/gson/stream/JsonToken.java
* /gson-2-10-sources-jar/com/google/gson/stream/MalformedJsonException.java
* /gson-2-10-sources-jar/com/google/gson/stream/JsonWriter.java
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Found in path(s):

```
* /gson-2-10-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /gson-2-10-sources-jar/com/google/gson/TypeAdapterFactory.java
* /gson-2-10-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /gson-2-10-sources-jar/com/google/gson/TypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/TypeAdapters.java
*
 /gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
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* /gson-2-10-sources-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/LazilyParsedNumber.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/ConstructorConstructor.java
*
 /gson-2-10-sources-jar/com/google/gson/internal/UnsafeAllocator.java
* /gson-2-10-sources-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java
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* /gson-2-10-sources-jar/com/google/gson/ToNumberPolicy.java
* /gson-2-10-sources-jar/com/google/gson/ToNumberStrategy.java
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* /gson-2-10-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /gson-2-10-sources-jar/com/google/gson/annotations/JsonAdapter.java
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Found in path(s):
* /gson-2-10-sources-jar/com/google/gson/internal/Streams.java
* /gson-2-10-sources-jar/com/google/gson/JsonSyntaxException.java

1.209 metrics-jvm 4.2.23

1.209.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 17
Bundle-Description: A set of classes which allow you to monitor critic
al aspects of your Java Virtual Machine using Metrics.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,j
avax.management";version="4.2.23"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;r
esolution:=optional,com.codahale.metrics;version="[4.2,5)",javax.mana
gement
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jvm-4-2-23-jar/META-INF/MANIFEST.MF

1.210 pyasn1-modules 0.4.2

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ASN.1 library for Python

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[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.python.org/pypi/pyasn1/)
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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
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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).

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 3.6
* 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.python.org/pypi/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](http://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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```

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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>`_) 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.python.org/pypi/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 if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers
and widely used in industry and technology.

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

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

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

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing
arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies

use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP,
 CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

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::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
  :maxdepth: 2

  /download

Changes

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

.. toctree::
  :maxdepth: 1

  /changelog

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.. toctree::
  :maxdepth: 2

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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
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1.211 santhosh-tekuri-jsonschema 6.0.2

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1.215 prometheus-common 0.62.0

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1.216 adduser 3.118ubuntu5

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1.218 sql-migrate 1.8.0

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1.219 distlib 0.3.4

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Python was created in the early 1990s by Guido van Rossum at Stichting
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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.2	2.1.1	2001	PSF	yes
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2.3	2.2.2	2002-2003	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
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3.0	2.6	2008	PSF	yes
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distlib has started off using some of the code from distutil2.

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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 =

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@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>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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@heading Richard Outerbridge

DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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Windows support

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lib/hcrypto/test_dh.c

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1.225 httpcache 0.0.0-20190611155906-901d90724c79

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1.229 zstd 1.4.4+dfsg-3ubuntu0.1

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/* checkTag : validation tool for libzstd
* command :
* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/

1.230 pam 1.4.0-11ubuntu2.6

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1.231 jackson-xc 2.14.1

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1.232 cyrus-sasl 2.1.27+dfsg-2ubuntu0.1

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1.234 jsonreference 0.20.2

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1.241 adduser 3.118ubuntu2

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<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

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

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

Since March 24 2004, it is maintained by Roland Bauerschmidt
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1.243 joda-time 2.12.5

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

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

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

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

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

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

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

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

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

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

Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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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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and
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1. Source Code.

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

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

The
"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that

Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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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

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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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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
Return the address of the last file name component of FILENAME.
If FILENAME has some trailing slash(es), they are considered to be
part of the last component.
If FILENAME has no relative file name components because it is a file
system root, return the empty string.
Examples:
        FILENAME      RESULT
        "foo.c"       "foo.c"
```

```
            "foo/bar.c"   "bar.c"
            "/foo/bar.c"  "bar.c"
            "foo/bar/"    "bar/"
            "foo/bar//"   "bar//"
            "/"           ""
            "//"          ""
            ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
   function name because
     * Various platforms have different functions in their libc.
       In particular, the glibc basename(), defined in <string.h>, does
       not consider trailing slashes to be part of the component:

 FILENAME      RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
     * The 'basename' command eliminates trailing slashes and for a root
       produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
======================================================================
Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
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##
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1.254 metrics-json 4.2.23

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1.255 curl 7.68.0-1ubuntu2.18

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==========

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the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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

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1.256 libnsl 1.3.0-2build2

1.256.1 Available under license :

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1.257 findutils 4.7.0-1ubuntu1

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Id

1.259 python-dateutil 2.9.0.post0

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1.260 kubernetes-utils 0.0.0-20250604170112-4c0f3b243397

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1.261 amqp-client 5.20.0

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/amqp-client-5-20-0-3-jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches
/amqp-client-5-20-0-3-jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

Found in path(s):
* /bin/grep
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<content>// Copyright (c) $YEAR VMware, Inc. or its affiliates. All rights reserved.
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* /amqp-client-5-20-0-3-jar/META-INF/maven/com.rabbitmq/amqp-client/pom.xml
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Manifest-Version: 1.0
Bundle-Description: The RabbitMQ Java client library allows Java appli
cations to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html, http
s://www.gnu.org/licenses/gpl-2.0.txt, https://www.mozilla.org/en-US/M

PL/2.0/
Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 5.20.0
Bnd-LastModified: 1698243701289
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
Bundle-Vendor: VMware, Inc. or its affiliates.
Import-Package: com.codahale.metrics;version="[4.2,5)";resolution:=opt
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javax.naming.directory,javax.net,javax.net.ssl,javax.security.auth.ca
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 ="[1.7,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: VMware, Inc. or its affiliates.
Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,co
m.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabb
itmq.client.observation,com.rabbitmq.utility,javax.net,javax.net.ssl"
;version="5.20.0",com.rabbitmq.client.impl;uses:="com.codahale.metric
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m.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.rabbit
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ient.observation,io.micrometer.common,io.micrometer.common.docs,io.mi
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ervation.transport";version="5.20.0",com.rabbitmq.tools;version="5.20
.0",com.rabbitmq.tools.json;version="5.20.0",com.rabbitmq.tools.jsonr

pc;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,c
om.rabbitmq.client";version="5.20.0",com.rabbitmq.utility;version="5.
20.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 5.20.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

Found in path(s):
* /amqp-client-5-20-0-3-jar/META-INF/MANIFEST.MF

1.262 hk2-api 2.6.1

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1.263 vcs 1.13.3

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1.264 lz4 1.9.2-2ubuntu0.20.04.1

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1.265 net-tools 2.10

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1.266 gnutls 3.6.13-2ubuntu1.8

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1.268 libxdmcp 1:1.1.3-0ubuntu1

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1.269 jakarta-annotation-api 1.3.5

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.278 kotlin 1.9.10

1.278.1 Available under license :

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1.279 gnupg 2.2.27-3ubuntu2.4

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1993 Christopher Seiwald seiwald@vix.com
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1.280 libxcb 1.14-2

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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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Found in path(s):
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/ReflectArgumentType.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/CountArgumentAction.java
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* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/MutuallyExclusiveGroup.java
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Found in path(s):
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/choice/CollectionArgumentChoice.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/ArgumentParsers.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentParserException.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/ext/java7/PathArgumentType.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/ext/java7/Java7ExtensionResourceBundle.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/PrefixPattern.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/Argument.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java
*
 /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/Namespace.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/annotation/Arg.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/ParseState.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentAction.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/choice/RangeArgumentChoice.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/ArgumentGroupImpl.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/TextHelper.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/StoreTrueArgumentAction.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/FileVerification.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/ReflectHelper.java
*
 /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/UnrecognizedCommandException.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/Subparsers.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/TextWidthCounter.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/SubparserImpl.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/Subparser.java

* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/Arguments.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/AppendArgumentAction.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/ArgumentImpl.java
*
 /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentType.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/HelpArgumentAction.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/ConstructorArgumentType.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/EnumArgumentType.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/UnrecognizedArgumentException.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/ArgumentParserImpl.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentParser.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/FeatureControl.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/CJKTextWidthCounter.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/StoreConstArgumentAction.java
*
 /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/VersionArgumentAction.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/StoreArgumentAction.java
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* /argparse4j-0-9-0-sources-2-
jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumNameArgumentType.java

* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/EnumStringArgumentType.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumStringArgumentType.java

1.283 istack-commons 3.0.7

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* /istack-commons-runtime-3-0-7-4-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Build-Id: 3.0.7-c8b5e20894f565780625d6f9b018ef7c458cd68
8, 2018-08-29T05:23:37-0700
Bnd-LastModified: 1535545434210
Bundle-Description: istack common utility code
Bundle-DocURL: http://www.oracle.com/
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, h
ttps://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-ManifestVersion: 2
Bundle-Name: istack common utility code runtime
Bundle-SymbolicName: com.sun.istack.commons-runtime
Bundle-Vendor: Oracle Corporation
Bundle-Version: 3.0.7
Export-Package: com.sun.istack;version="3.0.7";uses:="javax.activation
,javax.xml.stream,org.xml.sax,org.xml.sax.helpers",com.sun.istack.loc
alization;version="3.0.7",com.sun.istack.logging;version="3.0.7"
Implementation-Title: istack common utility code runtime
Implementation-Vendor: Oracle Corporation
Implementation-Vendor-Id:
com.sun.istack
Implementation-Version: 3.0.7
Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007

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* /istack-commons-runtime-3-0-7-4-jar/META-INF/MANIFEST.MF

1.284 logback-core 1.2.13

1.284.1 Available under license :

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* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/IADataForBasicProperty.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/NOPAction.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/parser/Parser.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/encoder/EchoEncoder.java
*
 /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/AppenderAction.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/ContextPropertyAction.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/util/PropertySetter.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/SMTPAppenderBase.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/CompositeConverter.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/util/ConfigurationWatchListUtil.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/FileUtil.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java
*
 /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/StatusListenerConfigHelper.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/NoAutoStart.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/StatusListenerAsList.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/DefaultClass.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/SSLConfigurableServerSocket.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/OutputStreamAppender.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/event/BodyEvent.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/encoder/Encoder.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/util/StringToObjectConverter.java

*
 /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/parser/FormattingNode.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/helper/FileNamePattern.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/ClientVisitor.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/QueueFactory.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/DynamicClassLoadingException.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/SSLComponent.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/CloseUtil.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/SocketConnector.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/FixedDelay.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/PatternLayoutEncoderBase.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java
*
 /logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/OnPrintStreamStatusListenerBase.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/helper/PeriodicityType.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/SSLNestedComponentRegistryRules.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/GenericConfigurator.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/ServerSocketListener.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/InfoStatus.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/recovery/RecoveryCoordinator.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/TimeUtil.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/sift/Discriminator.java
*
 /logback-core-1-2-13-sources-jar/ch/qos/logback/core/FileAppender.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/EventPlayer.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/StatusUtil.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/NewRuleAction.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/SSLServerSocketAppenderBase.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/ElementSelector.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/subst/NodeToStringTransformer.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/layout/EchoLayout.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java
*
 /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/ParamAction.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/ContextUtil.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/LocationUtil.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/parser/Node.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/AbstractServerSocketAppender.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/DefaultInvocationGate.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/spi/FilterReply.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/conditional/IfAction.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/Loader.java

* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/Appender.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/color/BoldBlueCompositeConverter.java
*
 /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/Converter.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/ServerListener.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/conditional/Condition.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/color/ANSIConstants.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/ConsoleAppender.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/spi/CyclicBufferTracker.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/spi/PropertyDefiner.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/sift/AppenderTracker.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/encoder/NonClosableInputStream.java
*
 /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/event/StartEvent.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/StatusPrinter.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/ActionConst.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/TimestampAction.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/action/NestedComplexPropertyIA.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/status/StatusBase.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/color/GrayCompositeConverter.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/pattern/FormatInfo.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/read/CyclicBufferAppender.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/ssl/TrustManagerFactoryFactoryBean.java
*
 /logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/TriggeringPolicy.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/spi/ContextAwareBase.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/joran/spi/ActionException.java
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1. Source Code.

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

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lib/erl/src/Makefile.am

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components:

```
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```
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

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```
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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1.297 openssl 3.0.2-0ubuntu1.20

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1.301 tacacs-plus 2.6

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1.302 open-ldap 2.5.19+dfsg-0ubuntu0.22.04.1

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To: Stephen Frost <sfrost@debian.org>

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* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>

* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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1.303 go-errors-errors 1.4.2

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1.304 gdbm 1.18.1-5

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

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to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief
idea of what it does.>
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<program> Copyright (C) <year> <name of author>
This program comes
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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
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a) You must cause the modified files to carry prominent notices

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

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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.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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use the Lesser General Public License.

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

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

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limitation in the term "modification".)

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

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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must be
distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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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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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
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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

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

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

user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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which the executable runs, unless that component itself accompanies
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introduced by others.
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combined work, a derivative of the original library. The ordinary
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permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
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the library.

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of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

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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
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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.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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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.

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

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

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

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

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

Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below

for both license changes.

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
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> the original license (before moving to sourceforge -- aka, 2.7) was
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> GPL-2 ... it was a modified artistic license ... i didnt notice the
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>=20
> unlike the old license, GPL-2 prevents people from using cracklib
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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
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> GPL would permit applications which were released under version 3 of the
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> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
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>
> 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:
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> >
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> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use
nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct
 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
 RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

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
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> -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
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> 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
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> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
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change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
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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
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> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
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to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
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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
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> 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
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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:
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The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO

Content-Length:
585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

1.315 jersey-media-jaxb 2.39

1.315.1 Available under license :

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Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

Third-party Content

Angular JS, v1.6.6
* License MIT (http://www.opensource.org/licenses/mit-license.php)
* Project: http://angularjs.org
* Coyright: (c) 2010-2017 Google, Inc.

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* License: all the source code provided by AOP Alliance is Public Domain.
* Project: http://aopalliance.sourceforge.net
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Bean Validation API 2.0.2
* License: Apache License, 2.0
* Project: http://beanvalidation.org/1.1/
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Hibernate Validator CDI, 6.2.4.Final
* License: Apache License, 2.0
* Project: https://beanvalidation.org/
* Repackaged in org.glassfish.jersey.server.validation.internal.hibernate

Bootstrap v3.3.7
* License: MIT license (https://github.com/twbs/bootstrap/blob/master/LICENSE)
*
Project: http://getbootstrap.com
* Copyright: 2011-2016 Twitter, Inc

Google Guava Version 18.0
* License: Apache License, 2.0
* Copyright (C) 2009 The Guava Authors

javax.inject Version: 1
* License: Apache License, 2.0

* Copyright (C) 2009 The JSR-330 Expert Group

Javassist Version 3.29.0-GA
* License: Apache License, 2.0
* Project: http://www.javassist.org/
* Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

Jackson JAX-RS Providers Version 2.14.1
* License: Apache License, 2.0
* Project: https://github.com/FasterXML/jackson-jaxrs-providers
* Copyright: (c) 2009-2022 FasterXML, LLC. All rights reserved unless otherwise indicated.

jQuery v1.12.4
* License: jquery.org/license
* Project: jquery.org
* Copyright: (c) jQuery Foundation

jQuery Barcode plugin 0.3
* License: MIT & GPL (http://www.opensource.org/licenses/mit-license.php &
http://www.gnu.org/licenses/gpl.html)
* Project: http://www.pasella.it/projects/jQuery/barcode
*
Copyright: (c) 2009 Antonello Pasella antonello.pasella@gmail.com

JSR-166 Extension - JEP 266
* License: CC0
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KineticJS, v4.7.1
* License: MIT license (http://www.opensource.org/licenses/mit-license.php)
* Project: http://www.kineticjs.com, https://github.com/ericdrowell/KineticJS
* Copyright: Eric Rowell

org.objectweb.asm Version 9.4
* License: Modified BSD (https://asm.ow2.io/license.html)
* Copyright (c) 2000-2011 INRIA, France Telecom. All rights reserved.

org.osgi.core version 6.0.0
* License: Apache License, 2.0
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org.glassfish.jersey.server.internal.monitoring.core
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1.316 pycparser 2.23

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1.325 systemd 249.11-0ubuntu3.17

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1.326 go-openapi-jsonpointer 0.21.0

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1.327 pq 1.10.9

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
```

```
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
```

```
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.328 spring-framework 5.3.33

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* /spring-core-5-3-33-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderApplicationStartup.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/SpringAsmInfo.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/env/JOptCommandLinePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DataBufferLimitException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/ResourceLoader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/StopWatch.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/Constants.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/LinkedCaseInsensitiveMap.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/metrics/DefaultApplicationStartup.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxEventXMLReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/codec/Decoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/LimitedDataBufferList.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/type/classreading/MergedAnnotationReadingVisitor.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/InputStreamSource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ConcurrentLruCache.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/NativeDetector.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationFilter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/util/PatternMatchUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/AttributeAccessor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/Encoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/ByteArrayResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/StandardClassMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/log/LogDelegateFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/ValueExtractor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/SpringProperties.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/SimpleMethodMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/MethodMetadata.java

*
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* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/support/SerializationFailedException.java
*
/spring-core-5-3-33-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/SyncTaskExecutor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/InfrastructureProxy.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/GenericTypeResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/OrderComparator.java
*
/spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/SimpleIdGenerator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToBooleanConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/PropertySource.java
*
/spring-core-5-3-33-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderStartupEvent.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/Assert.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/IdGenerator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/StringDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ResourceDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/support/SerializingConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/PropertySourceFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/Converter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/Hints.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationCollectors.java
*
/spring-core-5-3-33-sources-jar/org/springframework/util/MultiValueMapAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/FileCopyUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/SpringFactoriesLoader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/CustomizableThreadCreator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/ListenableFutureCallbackRegistry.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/MapPropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/log/LogAccessor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/Conventions.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/PropertyResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/Deserializer.java
*
/spring-core-5-3-33-sources-jar/org/springframework/core/serializer/Serializer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/MimeTypeUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/AliasRegistry.java

* /spring-core-5-3-33-sources-jar/org/springframework/util/PropertiesPersister.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/metrics/ApplicationStartup.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/InstanceComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/MutablePropertySources.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/metrics/StartupStep.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/FileUrlResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/util/CommonsLogWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/StreamUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/MonoToListenableFutureAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/SortedProperties.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/PooledDataBuffer.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxStreamXMLReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/SystemPropertyUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/AttributeAccessorSupport.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/env/AbstractPropertyResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/KotlinDetector.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationsCollection.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/TaskDecorator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/LinkedMultiValueMap.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/util/backoff/BackOff.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ErrorHandler.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/EnumToIntegerConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/TaskExecutor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/ProtocolResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/UsesSunMisc.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/CollectionToStringConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/objenesis/SpringObjenesis.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/backoff/BackOffExecution.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/CommandLineArgs.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/filter/AssignableTypeFilter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/FailureCallback.java
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jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/InvertibleComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/CompositeIterator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/DomUtils.java

*
 /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/ResourceRegion.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/ReadOnlySystemAttributesMap.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/SuccessCallback.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/function/SupplierUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/AutoPopulatingList.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/UsesJava8.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/backoff/FixedBackOff.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/Comparators.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/style/ToStringCreator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/ListBasedXMLEventReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/ComparableComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/DescriptiveResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/UsesSunHttpServer.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxSource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/NamedInheritableThreadLocal.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ResourceUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/BooleanComparator.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/io/InputStreamResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java
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 /spring-core-5-3-33-sources-jar/org/springframework/core/NestedRuntimeException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/VfsUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/XMLEventStreamWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/function/SingletonSupplier.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/AsyncListenableTaskExecutor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxEventHandler.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/OverridingClassLoader.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/NettyDataBufferFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/SimpleNamespaceContext.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/NestedCheckedException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/TypeMappedAnnotation.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/DigestUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/io/Resource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/AbstractEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationTypeMapping.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/Property.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/CollectionUtils.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotations.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotation.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/DefaultPropertiesPersister.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/BridgeMethodResolver.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/io/ClassPathResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/TypeDescriptor.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/ExceptionTypeFilter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ArrayToObjectConverter.java
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* /spring-core-5-3-33-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/SpringCglibInfo.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/DecoratingClassLoader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/WritableResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/EnvironmentCapable.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/GenericConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StreamConverter.java
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 /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/JdkIdGenerator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /spring-core-5-3-33-sources-jar/org/springframework/asm/Attribute.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/ModuleVisitor.java
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* /spring-core-5-3-33-sources-jar/org/springframework/asm/Frame.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/asm/Opcodes.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/RecordComponentWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/Context.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/AnnotationVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/MethodWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/FieldWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/Handler.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/AnnotationWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/Symbol.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/ByteVector.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/ConstantDynamic.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/Type.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/Label.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/asm/FieldVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/MethodTooLargeException.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/Edge.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/MethodVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/TypeReference.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/CurrentFrame.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/TypePath.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/ModuleWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/ClassWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/SymbolTable.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/ClassVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/ClassReader.java

* /spring-core-5-3-33-sources-jar/org/springframework/asm/Handle.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/RecordComponentVisitor.java
*
/spring-core-5-3-33-sources-jar/org/springframework/asm/ClassTooLargeException.java
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* /spring-core-5-3-33-sources-jar/org/springframework/cglib/core/ReflectUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/core/AbstractClassGenerator.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/cglib/beans/BeanCopier.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/beans/BeanMap.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/core/KeyFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/beans/BulkBeanEmitter.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/beans/ImmutableBean.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/core/AsmApi.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /spring-core-5-3-33-sources-

jar/org/springframework/core/type/classreading/AbstractRecursiveAnnotationVisitor.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/NonNull.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/CharSequenceEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/Ordered.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/AbstractDataBufferDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/PriorityOrdered.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/DataBufferDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/PropertyResolverExtensions.kt
* /spring-core-5-3-33-sources-jar/org/springframework/core/DecoratingProxy.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/PropertiesPropertySource.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/type/classreading/RecursiveAnnotationArrayVisitor.java
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 /spring-core-5-3-33-sources-jar/org/springframework/util/MultiValueMap.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/NettyDataBuffer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/AnnotationMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/ClassMetadataReadingVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/TransformerUtils.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/SimpleRouteMatcher.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/unit/DataUnit.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/cglib/core/ClassLoaderAwareGeneratorStrategy.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/PathMatcher.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationSelector.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java
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jar/org/springframework/core/type/classreading/RecursiveAnnotationAttributesVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/Base64Utils.java
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 /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ResourceEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/AbstractDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/style/DefaultValueStyler.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/SpringVersion.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java

* /spring-core-5-3-33-sources-jar/org/springframework/util/RouteMatcher.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/NonNullFields.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DataBufferWrapper.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ByteBufferDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ReactiveAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/Nullable.java

1.329 simpleclient_tracer_otel_agent 0.16.0

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1.330 audit 1:2.8.5-2ubuntu6

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1.336 logr 1.4.2

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1.341 cdebconf 0.251ubuntu1

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1.342 jackson-module-blackbird 2.13.5

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1.343 libseccomp 2.5.1-1ubuntu1~20.04.2

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

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

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

c) You must cause the whole of the work to be licensed at no

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terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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it with the complete corresponding
machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

Library will still fall under Section 6.)

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

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

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

a) Accompany
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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1.344 attr 1:2.5.1-1build1

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

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

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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
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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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during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

to use the modified definitions.)

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

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

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

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

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* /okio-3-5-0-sources-1-jar/commonMain/okio/Sink.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/Okio.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/BufferedSource.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/RealBufferedSink.kt
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 /okio-3-5-0-sources-1-jar/commonMain/okio/Source.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/Sink.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/Timeout.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/internal/Buffer.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/BufferedSink.kt
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*
/okio-3-5-0-sources-1-jar/commonMain/okio/ByteString.kt
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* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/HashingSource.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/FileMetadata.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/ExperimentalFileSystem.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/FileSink.kt
* /okio-3-5-0-sources-1-jar/unixMain/okio/UnixPosixVariant.kt
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* /okio-3-5-0-sources-1-jar/nativeMain/okio/Cinterop.kt
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* /okio-3-5-0-sources-1-jar/commonMain/okio/ForwardingSource.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/SegmentPool.kt
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1.354 tenacity 8.2.2

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1.360 packaging 23.1

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1.361 attr 1:2.5.2-1build1.1

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

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Appendix: How to Apply These Terms to Your New Programs

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

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

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

The precise terms and conditions for copying, distribution and

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

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

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

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library

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

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

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b) Use a suitable shared library mechanism for linking with the
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if
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c) Accompany the work with a written offer, valid for at
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from a designated place, offer equivalent access to copy the above
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For an executable, the required form of the "work that uses the
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form) with the major
components (compiler, kernel, and so on) of the operating system on
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
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2010 Steve Bennett <steveb@workware.net.au>
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1.371 btree 1.1.3

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1.372 dario.cat-mergo 1.0.1

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          David Mackenzie, Bruno Haible, and many others.
Origin: configure.ac from XZ Utils,
      visibility.m4 serial 1 (gettext-0.15),
      Autoconf 2.52g
License: config-h
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1.379 bash 5.2.21-2ubuntu4

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1.380 sigs.k8s.io-randfill 1.0.0

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1.383 jackson-module-parameter-names 2.13.5

1.383.1 Available under license :

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1.384 bzip2 1.0.8-5.1build0.1

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.385 libunistring 1.1-2build1.1

1.385.1 Available under license :

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.390 colorama 0.4.4

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1.391 libx11 2:1.7.5-1ubuntu0.3

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.
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CAST128
  The implementation of the CAST128 cipher is written by Steve Reid.
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.

DES
The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

.

MD2
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.

MD4
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MD5
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SHA224, SHA256, SHA384, and SHA512
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TWOFISH
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RSA
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.

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

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

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

engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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facilities. This must be distributed under the terms of the Sections above.

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1.398 wget 1.20.3-1ubuntu2

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1.399 activation-api 1.2.2

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* /bcel-5-1-sources-7-jar/org/apache/bcel/Repository.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/ReturnInstruction.java
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/bcel-5-1-sources-7-jar/org/apache/bcel/generic/IFNULL.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/FALOAD.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/DUP2.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/PopInstruction.java

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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/MONITOREXIT.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/LRETURN.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/TransitiveHull.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/ClassGenException.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/VerifierFactoryObserver.java
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 /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/statics/LocalVariableInfo.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/Constant.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/RETURN.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/INVOKESPECIAL.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/DALOAD.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/MethodGen.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/ConstantMethodref.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/ClassGen.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/InstructionList.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/DUP2_X2.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/LineNumberGen.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/DUP2_X1.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/structurals/Pass3bVerifier.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/LXOR.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/Type.java
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 /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/ConstantPool.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/ConstantString.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/MONITORENTER.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/FSTORE.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/ICONST.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/IndexedInstruction.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/SIPUSH.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/statics/LONG_Upper.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/Deprecated.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/Unknown.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/ReturnaddressType.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/DSUB.java
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 /bcel-5-1-sources-7-jar/org/apache/bcel/generic/LALOAD.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/statics/DOUBLE_Upper.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/StackProducer.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/IADD.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/Field.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/IfInstruction.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/IUSHR.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/ConstantCP.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/structurals/GenericArray.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/LineNumber.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/L2F.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/POP2.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/AccessFlags.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/exc/VerifierConstraintViolatedException.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/Select.java
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/bcel-5-1-sources-7-jar/org/apache/bcel/generic/FieldInstruction.java
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*
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* This class represents an uninitialized object type; see The Java
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* more details.
*
* @version $Id: UninitializedObjectType.java,v 1.1.1.1 2001/10/29 20:00:42 jvanzyl Exp $
* @author <A
HREF="http://www.inf.fu-berlin.de/~ehaase"/>Enver Haase</A>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.402 pyparsing 3.0.7

1.402.1 Available under license :

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1.403 platformdirs 4.2.2

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1.404 zlib 1:1.2.11.dfsg-2ubuntu9.2

1.404.1 Available under license :

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

/* gun.c -- simple gunzip 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):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for 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):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.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):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
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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 (minizip) (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.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

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

Copyright (C) 2007-2008 Even Rouault

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 paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
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):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
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/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.

/* 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)

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

Modifications for Zip64 support
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For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

```
/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

```
/* gzjoin -- command to join gzip files into one gzip file

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 version 1.2, 14 Aug 2012

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*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. 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).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes
well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version. The zlib home page is
http://zlib.net/ . Before reporting a problem, please check this site to
verify that you have the latest version of zlib; otherwise get the latest
version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
 -O, one libpng test fails. The test works in 32 bit mode (with the -n32
 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
 OSF/1 2.1 it works
 when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
 necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
 other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and
zlib specifications were written by L. Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib; they
are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include
third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
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/* fitblk.c: example of fitting compressed output to a specified size
Not copyrighted -- provided to the public domain
Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
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/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.11, January 15th, 2017

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

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
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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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*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
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/* gzlib.c -- zlib functions common to reading and writing gzip files
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*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

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

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* 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
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.

All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
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not be removed or altered from any source distribution.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* 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 (minizip) (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

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Changes

See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* 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):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* 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
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

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

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

 Copyright (C) 2003, 2012 Mark Adler, all rights reserved
 version 1.2, 11 Oct 2012

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 removed or altered from any source distribution.

 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package.
zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.
Please try to reproduce the problem with a small program and send the
corresponding source to us at zlib@gzip.org . Do not send multi-megabyte
data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or
/usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib
distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt
the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so: symbol __register_frame_info: referenced symbol not found

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes

in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I
exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any
data types being limited to 32-bits in length. If you have any
difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than
does PKZIP and zlib. However, you can look in zlib's contrib/blast
directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use
Z_FULL_FLUSH, carefully write all the pending data at those points, and
keep an index of those locations, then you can start decompression at those
points. You have to be
careful to not use Z_FULL_FLUSH too often, since it
can significantly degrade compression. Alternatively, you can scan a
deflate stream once to generate an index, and then use that index for
random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There
were working ports of zlib 1.1.4 to MVS, but those links no longer work.
If you know of recent, successful applications of zlib on these operating
systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to
understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's
contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind
zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly.
Each call of inflate() or deflate() is limited to input and output chunks
of the maximum value that can be stored in the compiler's "unsigned int"
type, but there is no limit to the number of chunks. Note however that the
strm.total_in and strm_total_out counters may be limited to 4 GB. These
counters are provided as a convenience and are not used internally by
inflate() or deflate(). The application can easily set up its own counters
updated after each call of inflate() or deflate() to count beyond 4 GB.
compress() and uncompress() may be limited to 4 GB, since they operate in a
single call. gzseek() and gztell() may be limited to 4 GB depending on how
zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only
if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is
compiled to use sprintf() or vsprintf(), then there is no protection
against a buffer overflow of an 8K string space (or other value as set by
gzbuffer()), other than the caller of gzprintf() assuring that the output
will not exceed 8K. On the other hand, if zlib is compiled to use
snprintf() or vsnprintf(), which should normally be the case, then there is
no vulnerability. The ./configure script will display warnings if an
insecure variation of sprintf() will be used by gzprintf(). Also the
zlibCompileFlags() function will return information on what variant of
sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can
find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions
1.1.3 and before were subject to a double-free vulnerability, and versions
1.2.1 and 1.2.2 were subject to an access exception when decompressing
invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate

specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.405 javax-ws-rs-api 2.0

1.405.1 Available under license :

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* /javassist-3-29-0-ga-sources-jar/javassist/Loader.java
*
 /javassist-3-29-0-ga-sources-jar/javassist/bytecode/ClassFile.java
* /javassist-3-29-0-ga-sources-jar/javassist/ByteArrayClassPath.java
* /javassist-3-29-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-29-0-ga-sources-jar/javassist/ClassPath.java
* /javassist-3-29-0-ga-sources-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-29-0-ga-sources-jar/javassist/expr/NewExpr.java
* /javassist-3-29-0-ga-sources-jar/javassist/tools/rmi/Sample.java
* /javassist-3-29-0-ga-sources-jar/javassist/compiler/ast/IntConst.java
* /javassist-3-29-0-ga-sources-jar/javassist/tools/web/Webserver.java
* /javassist-3-29-0-ga-sources-jar/javassist/runtime/Inner.java
* /javassist-3-29-0-ga-sources-jar/javassist/convert/TransformCall.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/analysis/Analyzer.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/AnnotationDefaultAttribute.java
*
 /javassist-3-29-0-ga-sources-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-29-0-ga-sources-jar/javassist/CtClassType.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/analysis/MultiType.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java
* /javassist-3-29-0-ga-sources-jar/javassist/tools/rmi/AppletServer.java
* /javassist-3-29-0-ga-sources-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-29-0-ga-sources-jar/javassist/compiler/ProceedHandler.java
* /javassist-3-29-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /javassist-3-29-0-ga-sources-jar/javassist/CtNewWrappedConstructor.java
* /javassist-3-29-0-ga-sources-jar/javassist/CtConstructor.java
* /javassist-3-29-0-ga-sources-jar/javassist/expr/Cast.java
* /javassist-3-29-0-ga-sources-jar/javassist/convert/TransformAfter.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/ClassFilePrinter.java
* /javassist-3-29-0-ga-sources-jar/javassist/convert/TransformReadField.java
*
 /javassist-3-29-0-ga-sources-jar/javassist/CtNewMethod.java
* /javassist-3-29-0-ga-sources-jar/javassist/CodeConverter.java
* /javassist-3-29-0-ga-sources-jar/javassist/expr/FieldAccess.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/stackmap/MapMaker.java
* /javassist-3-29-0-ga-sources-jar/javassist/tools/Dump.java
* /javassist-3-29-0-ga-sources-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-29-0-ga-sources-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-29-0-ga-sources-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-29-0-ga-sources-jar/javassist/ClassMap.java

* /javassist-3-29-0-ga-sources-jar/javassist/CannotCompileException.java
* /javassist-3-29-0-ga-sources-jar/javassist/CtMember.java
* /javassist-3-29-0-ga-sources-jar/javassist/expr/NewArray.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/annotation/NoSuchClassError.java
*
/javassist-3-29-0-ga-sources-jar/javassist/CtNewClass.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/SignatureAttribute.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/Opcode.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/Bytecode.java

1.409 simpleclient-dropwizard 0.16.0

1.409.1 Available under license :

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<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /simpleclient-dropwizard-0-16-0-sources-2-jar/META-INF/maven/io.prometheus/simpleclient_dropwizard/pom.xml

1.410 lann-builder 0.0.0-20180802200727-47ae307949d0

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1.411 coreutils 9.4-3ubuntu6.1

1.411.1 Available under license :

```
/* Extract the last component (base name) of a file name.

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  along with this program.  If not, see <https://www.gnu.org/licenses/>.  */

#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE.  */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
 DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif



/* Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
```

```
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME     RESULT
          "foo.c"      "foo.c"
          "foo/bar.c"  "bar.c"
          "/foo/bar.c" "bar.c"
          "foo/bar/"   "bar/"
          "foo/bar//"  "bar//"
          "/"          ""
          "//"         ""
          ""           ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(),
 defined in <string.h>, does
      not consider trailing slashes to be part of the component:
          FILENAME     RESULT
          "foo/bar/"   ""
          "foo/bar//"  ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME     RESULT
          "foo/bar/"   "bar"
          "foo/bar//"  "bar"
          "/"          "/"
          "//"         "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
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                  Version 3, 29 June 2007

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```

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1.412 giflib 8.82.0.21

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1.413 libxcrypt 1:4.4.27-1

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1.420 glibc 2.39-0ubuntu8.6

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
```
===================================================================
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -348,6 +348,65 @@
   return PAM_SUCCESS;
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
```

```
+       PAM_MODUTIL_DEF_PRIVS(privs);
+
+
      /* Get the password entry */
+       pwd = pam_modutil_getpwnam (pamh, user);
+       if (pwd != NULL)
+       {
+          if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+             pam_syslog(pamh, LOG_ERR,
+                        "Unable to change UID to %d temporarily\n",
+                        pwd->pw_uid);
+             retval = PAM_SESSION_ERR;
+             goto finished;
+          }
+
+          if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+             goto finished;
+          if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+             goto finished;
+
+          if (stat(flag, &s) != 0)
+          {
+             int fd = open("/etc/legal", O_RDONLY, 0);
+             if (fd >= 0) {
+                try_to_display_fd(pamh, fd);
+                close(fd);
+             }
+             mkdir(dir, 0700);
+             f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+
               S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+             if (f>=0) close(f);
+          }
+
+finished:
+          if (pam_modutil_regain_priv(pamh, &privs)) {
+             pam_syslog(pamh, LOG_ERR,
+                        "Unable to change UID back to %d\n", privs.old_uid);
+             retval = PAM_SESSION_ERR;
+          }
+
+          _pam_drop(flag);
+          _pam_drop(dir);
+       }
+    }
+    return retval;
+}
+
```

```
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
{
@@ -446,6 +505,9 @@
                        motd_dir_path_split, num_motd_dir_paths,
                        report_missing);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+
  out:
    _pam_drop(motd_path_copy);
    _pam_drop(motd_path_split);
```

1.421 lann-ps 0.0.0-20150810152359-62de8c46ede0

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1.422 libgpg-error 1.43-3

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```

Found in path(s):

* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ElapsedSecondsConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/SessionIDConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/QueryStringConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ThreadNameConverter.java

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--
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-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
--
-- It is intended for Oracle databases.


CREATE SEQUENCE access_event_id_seq MINVALUE 1 START WITH 1;


CREATE TABLE access_event
 (
   timestmp         NUMBER(20) NOT NULL,
   requestURI    VARCHAR(254),
   requestURL       VARCHAR(254),
   remoteHost       VARCHAR(254),
   remoteUser       VARCHAR(254),
   remoteAddr       VARCHAR(254),
   protocol         VARCHAR(254),
   method           VARCHAR(254),
```

```
  serverName        VARCHAR(254),
  postContent       VARCHAR(254),
  event_id          NUMBER(20) PRIMARY KEY
 );

-- the / suffix may or may not be needed depending on your SQL Client
--
 Some SQL Clients, e.g. SQuirrel SQL has trouble with the following
-- trigger creation command, while SQLPlus (the basic SQL Client which
-- ships with Oracle) has no trouble at all.

CREATE TRIGGER access_event_id_seq_trig
 BEFORE INSERT ON access_event
 FOR EACH ROW
 BEGIN
  SELECT access_event_id_seq.NEXTVAL
  INTO   :NEW.event_id
  FROM   DUAL;
 END access_event_id_seq_trig;
/

CREATE TABLE access_event_header
 (
  event_id       NUMBER(20) NOT NULL,
  header_key        VARCHAR2(254) NOT NULL,
  header_value      VARCHAR2(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
 );

Found in path(s):
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/oracle.sql
No license file was found, but licenses were detected in source scan.

/**
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*/
```

Found in path(s):
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/JettyModernServerAdapter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SSLSocketAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/LocalIPAddressConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/Util.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/RequestLogRegistry.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SimpleSocketServer.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/AppenderFactoryUsingJoran.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByDay.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByHour.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/PatternLayoutEncoder.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestURIConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/ServerAdapter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/FullResponseConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RemoteHostConverter.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/SiftingAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/html/HTMLLayout.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SocketAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/PeriodicStats.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/CountingFilter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/AccessEvent.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/SiftAction.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/tomcat/TomcatServerAdapter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/NAConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RemoteUserConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/IAccessEvent.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/joran/action/EvaluatorAction.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/html/DefaultCssBuilder.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/RequestLogImpl.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/JettyServerAdapter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/joran/JoranConfigurator.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ContentLengthConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/server/SSLServerSocketAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatisticalViewImpl.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestCookieConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestParameterConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/html/UrlCssBuilder.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java

* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ServerNameConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/joran/action/ConfigurationAction.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByWeek.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/URLEvaluator.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/ViewStatusMessagesServlet.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SMTPAppender.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/StatusCodeConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestMethodConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ResponseHeaderConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/FullRequestConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeServletInputStream.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/PatternLayout.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByMonth.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/AccessConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/AccessConstants.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ResponseContentConverter.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByMinute.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/boolex/JaninoEventEvaluator.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeHttpServletRequest.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeFilter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SocketNode.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/DateConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/Util.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestContentConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/AccessContext.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/tomcat/LogbackValve.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestAttributeConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/LocalPortConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatisticalView.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/server/ServerSocketAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestURLConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/SiftingJoranConfigurator.java
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-- See http://logback.qos.ch/license.html for the applicable licensing
-- conditions.

-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
--

```
DROP TABLE access_event_header
DROP TABLE access_event

CREATE TABLE access_event
(
  timestmp          BIGINT NOT NULL,
  requestURI        VARCHAR(254),
  requestURL        VARCHAR(254),
  remoteHost        VARCHAR(254),
  remoteUser        VARCHAR(254),
  remoteAddr        VARCHAR(254),
  protocol          VARCHAR(254),
  method            VARCHAR(254),
  serverName        VARCHAR(254),
  postContent       VARCHAR(254),
  event_id          INT NOT NULL identity,
  PRIMARY KEY(event_id)
)

CREATE TABLE access_event_header
(
  event_id          INT NOT NULL,
  header_key
      VARCHAR(254) NOT NULL,
  header_value      VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
)
```

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* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/mysql.sql
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/hsqldb.sql
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/postgresql.sql
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/db2.sql

1.434 mawk 1.3.4.20200120-2

1.434.1 Available under license :

Upstream source http://invisible-island.net/mawk/mawk.html

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

---

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 `make' implicit rules from creating a file called install from it
 when there is no Makefile.

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

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1.438 commons-codec 1.6

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1.439 base-passwd 3.5.47

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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
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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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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also compile or
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```
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<signature of Ty Coon>, 1 April 1989
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1.446 masterminds-goutils 1.1.1

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1.449 xxhash 2.2.0

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1.450 prometheus-client-model 0.3.0

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1.451 supervisor 4.2.1-1ubuntu1

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1.452 python-setuptools 68.0.0

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1.453 google-uuid 1.6.0

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1.454 jetty-util 9.4.56.v20240826

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.455 metrics-jmx 4.2.23

1.455.1 Available under license :

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

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jmx
Build-Jdk-Spec: 17
Bundle-Description: A set of classes which allow you to report metrics
via JMX.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration with JMX
Bundle-SymbolicName: io.dropwizard.metrics.jmx
Bundle-Version: 4.2.23

Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,j
avax.management";version="4.2.23"
Implementation-Title: Metrics Integration with JMX
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",javax.management
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jmx-4-2-23-jar/META-INF/MANIFEST.MF

1.456 oauthlib 3.3.1

1.456.1 Available under license :

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1.457 dropwizard-metrics-graphite 2.1.11

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1.458 msgpack 1.1.1

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1.459 lz4 1.9.3-2build2

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1.460 init-system-helpers 1.62

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*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 421035 - [resource]
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
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*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 *         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*         bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*         bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*         Bug
 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*         Bug 426792 - [1.8][inference][impl] generify new type inference engine
*         Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*         Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*         Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 431581 - Eclipse compiles what it should not
*         Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*         Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*         Bug 446442 - [1.8] merge null annotations from
 super methods
*         Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*         Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*      Jesper S Moller - Contributions for
*         bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*         bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*         bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                         bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
```

*   Sebastian Zarnekow - Contributions
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*   bug 544921 - [performance] Poor performance with large source files
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* Contributors:
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*   Stephan Herrmann - Contributions for
*   bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*   bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
*   bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*   Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*   bug 386692 - Missing "unused" warning on "autowired" fields
**/

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*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
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*     Stephan Herrmann - Contributions for
*        Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*        Bug 388630 - @NonNull diagnostics at line 0
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*        Bug 424727 - [compiler][null] NullPointerException
 in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*        Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
 *     Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                          Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*                          Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
*******************************************************************************/
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* Contributors:
*    wharley@bea.com - initial API and implementation
*    philippe.marschall@netcetera.ch - Fix for 338370
*    IBM Corporation - Fix for validating relative name
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/BatchCompilerRequestor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
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*   IBM Corporation - initial API and implementation
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
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*     Stephen Herrmann <stephan@cs.tu-berlin.de> -  Contributions for
*          bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
*          bug 292478 - Report potentially null across variable assignment
*       bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
```

```
*        bug 354554 - [null] conditional with redundant condition
 yields weak error message
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*********************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java
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*     Jesper Steen Moller - Contributions for:
*          Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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*          bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*        bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 455723 - Nonnull argument not correctly inferred in loop
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*        Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
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*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed
via BinaryTypeBinding
**********************************************************************************/
```

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*         Bug 407191 - [1.8] Binary access support for type annotations
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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*   Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*   Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*   Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 434556 - Broken class file generated for incorrect annotation usage
*   Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*   Stephan Herrmann - Contribution for
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Olivier Tardieu tardieu@us.ibm.com - Contributions for
*   Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
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*   Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*   bug 393719 - [compiler] inconsistent warnings on iteration variables
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*   Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*   Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*   Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*   Bug 446442 - [1.8] merge null annotations from super methods
*   Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*   Jesper S Moller - Contributions for

```
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*     Till Brychcy - Contributions for
*               bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ASTNode.java
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*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AbstractVariableDeclaration.java
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*    IBM Corporation - Java 8 support
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeMirrorImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/BasicModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ModuleReferenceImpl.java
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
**********/

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Stephan Herrmann - Contribution for
*   Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
**********/

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 path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationTargetTypeConstants.java
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* Contributors:
*   Frits Jalvingh - fix for bug 533830.
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*   Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it
 extends the outer class
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/NestedTypeBinding.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
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*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*        bug 358903 - Filter practically unimportant resource leak warnings
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*        Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*        Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*        Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*        Bug 435962 - [RC2] StackOverFlowError when building
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*        Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
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*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java
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*        bug 384380 - False positive on a "Potential null pointer access" after a continue
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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*     Perry James - nullStatus method improvement (165346)
*     Stephan Herrmann - Contribution for
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*******************************************************************************/
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
*         Bug 440282 - [resource] Resource leak detection false negative with empty finally block
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*   bug 388739 - [1.8][compiler] consider default methods when detecting whether
 a class needs to be declared abstract
*   bug 390883 - [1.8][compiler] Unable to override default method
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*   bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*   bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*   bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*   bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*   bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*   Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*   Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
 *   Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*   Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
@NonNullByDefault
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 446442 - [1.8] merge null annotations from super methods
***/

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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 364890 - BinaryTypeBinding should use char constants from Util
*   bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 388800 - [1.8][compiler] detect default methods in class files
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*   Bug 392245 - [1.8][compiler][null] Define whether
 / how @NonNullByDefault applies to TYPE_USE locations
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*   Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*   Bug 454182 - Internal compiler error when using
 1.8 compliance for simple project
*   Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*   Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
*   Jesper Steen Moller - Contributions for
*   Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   Sebastian Zarnekow - Contributions for
*   bug 544921 - [performance] Poor performance with large source files
*   Alexander Lehmann - Contributions for

* bug 566258 - Intermittent NPE in APT RoundDispatcher
***/

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* Contributors:
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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* IBM Corporation - fix for 342936
* Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
* Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ

*   Frits Jalvingh - fix for bug 533830.
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*   Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*   Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*   Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExplicitConstructorCall.java

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*         Bug 407191 - [1.8] Binary access support for type annotations
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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*   Stephan Herrmann - Contribution for
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 458396 - NPE in CodeStream.invoke()
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java
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* Contributors:
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*     Genady Beriozkin - added support for reporting assignment with no effect
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 292478 - Report potentially null across variable assignment
*           bug 335093 - [compiler][null] minimal hook for future null annotation support
*           bug 349326 - [1.7] new warning for missing
 try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing
 warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
********************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java
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*  IBM Corporation - initial API and implementation
*  Stephan Herrmann - Contribution for
*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 -
 [1.8][compiler][codegen] Implement support for serializeable lambdas
*******************************************************************************/
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 292478 - Report potentially null across variable assignment,
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*     Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*           bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 378674 - "The method can be declared as static" is wrong
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*                       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
 checking
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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug 388281 - [compiler][null] inheritance of null annotations as an option
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
**********************************************************************************/
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*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*******************************************************************************/
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*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

```
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*                       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*                       bug 529556 - [18.3] Add content assist support for 'var' as a type
*
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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*   bug 328281 - visibility leaks not detected when analyzing unused field in private class

* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Stephan Herrmann - Contribution for
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
**/

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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
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*   Bug 428811 - [1.8][compiler] Type witness unnecessarily required

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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*   bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*   bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
*   Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*   Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*   Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
*   Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*   bug 386692 - Missing "unused" warning on "autowired" fields
*   Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*   bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java

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*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 458396 - NPE in CodeStream.invoke()
*******************************************************************************/
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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365835 - [compiler][null] inconsistent error reporting.
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug 427438 - [1.8][compiler] NPE at
```

```
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions
 for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
 null test in lazy disjunction
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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*   Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*   Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*   Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*   Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 446442 - [1.8] merge null annotations from super methods
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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*         bug 185682 - Increment/decrement operators mark local variables as read
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*         Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference
expressions
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Stephan Herrmann - Contribution for
*   bug 402028 - [1.8][compiler] null analysis for reference
 expressions
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*   Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*   Bug 427438
 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J
involved
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
*   Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
*   Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*   Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*   Bug 438945 - [1.8] NullPointerException
 InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*   Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*         bug 331649 - [compiler][null] consider null annotations for fields
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*         Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*         Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
*         Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                         Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*                         Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                         Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*       Jesper S Moller <jesper@selskabet.org> -  Contributions for
*                         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                         Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                         Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                         Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
*******************************************************************************/

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* Contributors:
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*     Stephan Herrmann - Contribution for
*         Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*           Bug 473178
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathDirectory.java
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*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*         Andy Clement - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 401030 - [1.8][null] Null analysis support for lambda methods.
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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* Contributors:
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
 *   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Bug 529556 - [18.3] Add content assist support for 'var' as a type
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.java
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*    wharley@bea.com - derived base class from BatchMessagerImpl
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*   Bug 440474 - [null] textual encoding of external null annotations
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*   bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*   Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type
 annotations after bug 392099
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*     Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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*   bug 325755 - [compiler] wrong initialization state after conditional expression
*   bug 320170 - [compiler] [null] Whitebox issues in null analysis
*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
 *   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*   Bug 456924 - StackOverflowError during compilation
*   Bug 462790 - [null] NPE in Expression.computeConversion()
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

```
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*         Bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
*         Bug 354536 - compiling package-info.java still depends on the order of compilation units
*         Bug 349326 - [1.7] new warning for missing try-with-resources
*         Bug
 358903 - Filter practically unimportant resource leak warnings
*       Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
```

```
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
 Contributions for
*                       Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
*     het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*       bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*       bug 386356 - Type mismatch error with annotations and generics
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
```

```
 *       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*      Till Brychcy - Contributions for
*           bug 415269 - NonNullByDefault is not always inherited to nested classes
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*      Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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```

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* Contributors:
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*     Stephan Herrmann - Contribution for
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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* Contributors:
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*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         bug 407191 - [1.8] Binary access support for type annotations
*     Stephan Herrmann - Contribution for
*         Bug 440474 - [null] textual encoding of external null annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryType.java

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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*       bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 376053 - [compiler][resource] Strange potential resource leak problems
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       bug 393719 - [compiler] inconsistent warnings on iteration
 variables
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
*       bug 376590 - Private fields with @Inject are ignored by unused field validation
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 402028 - [1.8][compiler] null analysis for reference expressions
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug
 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
```

* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
 from List<Object> to Collection<Object[]>
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
 in package-info.java
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs
 special treatment
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.java
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*     Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*     Stephan Herrmann - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*         bug 379784 - [compiler] "Method can be static" is not getting reported
*         bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super
class.
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*         bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null
 analysis for field references
*         bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*         bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*         bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*         bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*         Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis
 to gel well with deep encoded type bindings.
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*         Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*         Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
```

* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
* Bug 470958 - [1.8] Unable to convert lambda
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

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*     Stephan Herrmann - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug
 383368 - [compiler][null] syntactic null analysis for field references
*         bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*         bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*         Bug 430150 - [1.8][null] stricter checking against type variables
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
 null annotations
*         Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*         Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*******************************************************************************/
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*   IBM Corporation - initial API and implementation
*   IBM Corporation - Fix for bug 328575
*   het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
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 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
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* Contributors:
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*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   IBM Corporation - fix for bug 342757
*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406973 - [compiler] Parse MethodParameters attribute
*        Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
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Found
in path(s):
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*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/FileSystem.java

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*
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann - Contribution for
*          bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
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* Contributors:
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java
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*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*     Stephan Herrmann - Contribution for
*       bug 401030 - [1.8][null] Null analysis support for lambda methods.
*       Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
*       Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is
applicable here"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*       Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda
compatibility constraint
*       Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
 variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
********************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LambdaExpression.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 417758 - [1.8][null] Null safety compromise during array creation.
*        Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                        Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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*     Gauthier JACQUES - initial API and implementation
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*          bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
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Found in path(s):
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*     IBM Corporation - Bug fixes
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*   (originally in org.eclipse.jdt.apt.core)
*   IBM Corporation - Bug 513790
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 387612 - Unreachable catch block...exception is never thrown from the try
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*   bug 401271 - StackOverflowError
 when searching for a methods references
*   bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
*   Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the
interface type as the last parameter
*   Bug 413958 - Function override returning inherited Generic Type
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler]
 Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context

```
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
*       Bug 426590 - [1.8][compiler] Compiler error with tenary operator
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments
(java.lang.Class, java.lang.String)
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug
 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
*       Bug 427218 - [1.8][compiler] Verify error varargs + inference
*       Bug 426836 - [1.8] special handling for return type in references to method getClass()?
*       Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
Bindings
*       Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*       Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*       Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner
 class
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
*       Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite
@NonNullByDefault
*       Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*        Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc)
 aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                         Bug 559618 - No compiler warning for import from same package
*                         Bug 560630 - No warning on unused import on class from same package
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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*     Stephan Herrmann - Contribution for
*        bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*        bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*        bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
```

```
*                   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*                   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                   Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*       Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*                   Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
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*     Stephan Herrmann - Contribution for
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
```

```
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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*     Tom Tromey - Contribution for bug 125961
*     Tom Tromey - Contribution for bug 159641
*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
```

* bug 359721 - [options] add command line option
 for new warning token "resource"
* bug 365208 - [compiler][batch] command line options for annotation based null analysis
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
* Jesper S Moller - Contributions for
* bug 407297 - [1.8][compiler] Control generation of parameter names by option
* Mat Booth - Contribution for bug 405176
* Frits Jalvingh -
 fix for bug 533830.
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/Main.java
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*Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Initializer.java
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* Contributors:
*   Stephan Herrmann - initial API and implementation
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceVariable.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 317046 - Exception during debugging when hover mouse over a field
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray(and asking for code completion
 *   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

```
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Options.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
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*
* Contributors:
*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
*   het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
***/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
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* Contributors:
*   Andrey Loskutov <loskutov@gmx.de> - initial API and implementation
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/CtSym.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IModulePathEntry.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contribution for
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExpressionContext.java
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* Contributors:
*   Stephan Herrmann - initial API and implementation
*   Till Brychcy - Contributions for
*   Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NullAnnotationMatching.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CompilationProgress.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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*   Frits Jalvingh - fix for bug 533830.
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompiler.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
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* Contributors:
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated
 null analysis to gel well with deep encoded type bindings.
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*   Stephan Herrmann - Contributions for
*   bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 393719 - [compiler] inconsistent warnings on iteration variables
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*   bug 401035 - [1.8] A few tests have started failing recently
*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*   bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*   bug 393192 - Incomplete type hierarchy with > 10 annotations
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

```
*
        Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* Contributors:
*     IBM Corporation - initial API and implementation
*     IBM Corporation - added the following constants
*         NonStaticAccessToStaticField
*         NonStaticAccessToStaticMethod
*         Task
*         ExpressionShouldBeAVariable
*         AssignmentHasNoEffect
*     IBM Corporation - added the following constants
*         TooManySyntheticArgumentSlots
```

```
 *          TooManyArrayDimensions
 *          TooManyBytesForStringConstant
 *          TooManyMethods
 *          TooManyFields
 *          NonBlankFinalLocalAssignment
 *          ObjectCannotHaveSuperTypes
 *          MissingSemiColon
 *          InvalidParenthesizedExpression
 *          EnclosingInstanceInConstructorCall
 *          BytecodeExceeds64KLimitForConstructor
 *          IncompatibleReturnTypeForNonInheritedInterfaceMethod
 *          UnusedPrivateMethod
 *          UnusedPrivateConstructor
 *          UnusedPrivateType
 *          UnusedPrivateField
 *          IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
 *          InvalidExplicitConstructorCall
 *      IBM Corporation - added the following constants
 *          PossibleAccidentalBooleanAssignment
 *          SuperfluousSemicolon
 *          IndirectAccessToStaticField
 *          IndirectAccessToStaticMethod
 *          IndirectAccessToStaticType
 *          BooleanMethodThrowingException
 *          UnnecessaryCast
 *          UnnecessaryArgumentCast
 *          UnnecessaryInstanceof
 *
    FinallyMustCompleteNormally
 *          UnusedMethodDeclaredThrownException
 *          UnusedConstructorDeclaredThrownException
 *          InvalidCatchBlockSequence
 *          UnqualifiedFieldAccess
 *      IBM Corporation - added the following constants
 *          Javadoc
 *          JavadocUnexpectedTag
 *          JavadocMissingParamTag
 *          JavadocMissingParamName
 *          JavadocDuplicateParamName
 *          JavadocInvalidParamName
 *          JavadocMissingReturnTag
 *          JavadocDuplicateReturnTag
 *          JavadocMissingThrowsTag
 *          JavadocMissingThrowsClassName
 *          JavadocInvalidThrowsClass
 *          JavadocDuplicateThrowsClassName
 *          JavadocInvalidThrowsClassName
 *          JavadocMissingSeeReference
```

```
*         JavadocInvalidSeeReference
*         JavadocInvalidSeeHref
*         JavadocInvalidSeeArgs
*         JavadocMissing
*         JavadocInvalidTag
*         JavadocMessagePrefix
 *         EmptyControlFlowStatement
*    IBM Corporation - added the following constants
*         IllegalUsageOfQualifiedTypeReference
*         InvalidDigit
*    IBM Corporation - added the following constants
*         ParameterAssignment
*         FallthroughCase
*    IBM Corporation - added the following constants
*                         UnusedLabel
*                         UnnecessaryNLSTag
*                         LocalVariableMayBeNull
*                         EnumConstantsCannotBeSurroundedByParenthesis
*                         JavadocMissingIdentifier
*                         JavadocNonStaticTypeFromStaticInvocation
*                         RawTypeReference
*                         NoAdditionalBoundAfterTypeVariable
*                         UnsafeGenericArrayForVarargs
*                         IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                         InvalidEncoding
*                         CannotReadSource
*                         EnumStaticFieldInInInitializerContext
*                         ExternalProblemNotFixable
*                         ExternalProblemFixable
*    IBM Corporation - added the following constants
*                         AnnotationValueMustBeAnEnumConstant
*                         OverridingMethodWithoutSuperInvocation
*                         MethodMustOverrideOrImplement
*                         TypeHidingTypeParameterFromType
*                         TypeHidingTypeParameterFromMethod
*                         TypeHidingType
*    IBM Corporation - added the following constants
*         NullLocalVariableReference
*         PotentialNullLocalVariableReference
*         RedundantNullCheckOnNullLocalVariable
*          NullLocalVariableComparisonYieldsFalse
 *          RedundantLocalVariableNullAssignment
*          NullLocalVariableInstanceofYieldsFalse
*          RedundantNullCheckOnNonNullLocalVariable
*          NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
```

```
*                          InvalidUsageOfTypeParametersForAnnotationDeclaration
*                          InvalidUsageOfTypeParametersForEnumDeclaration
*    IBM Corporation - added the following constants
*         RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*       MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*       UnusedObjectAllocation
*       PotentiallyUnclosedCloseable
*       PotentiallyUnclosedCloseableAtExit
*       UnclosedCloseable
*       UnclosedCloseableAtExit
*       ExplicitlyClosedAutoCloseable
*          RequiredNonNullButProvidedNull
 *        RequiredNonNullButProvidedPotentialNull
*        RequiredNonNullButProvidedUnknown
*        NullAnnotationNameMustBeQualified
*        IllegalReturnNullityRedefinition
*        IllegalRedefinitionToNonNullParameter
*        IllegalDefinitionToNonNullParameter
*        ParameterLackingNonNullAnnotation
*        ParameterLackingNullableAnnotation
*        PotentialNullMessageSendReference
*        RedundantNullCheckOnNonNullMessageSend
*        CannotImplementIncompatibleNullness
*        RedundantNullAnnotation
*       RedundantNullDefaultAnnotation
*       RedundantNullDefaultAnnotationPackage
*       RedundantNullDefaultAnnotationType
*       RedundantNullDefaultAnnotationMethod
*       ContradictoryNullAnnotations
*       IllegalAnnotationForBaseType
*       RedundantNullCheckOnSpecdNonNullLocalVariable
*       SpecdNonNullLocalVariableComparisonYieldsFalse
*       RequiredNonNullButProvidedSpecdNullable
*       MissingDefaultCase
 *       MissingEnumConstantCaseDespiteDefault
*       UninitializedLocalVariableHintMissingDefault
*       UninitializedBlankFinalFieldHintMissingDefault
*       ShouldReturnValueHintMissingDefault
*       IllegalModifierForInterfaceDefaultMethod
*       InheritedDefaultMethodConflictsWithOtherInherited
*       ConflictingNullAnnotations
*       ConflictingInheritedNullAnnotations
*       UnsafeElementTypeConversion
*       ArrayReferencePotentialNullReference
*       DereferencingNullableExpression
*       NullityMismatchingTypeAnnotation
```

* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse
* NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression
* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnNullRedef
* ReferenceExpressionReturnNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing
* NullUnboxing
* NullExpressionReference
* PotentialNullExpressionReference
* RedundantNullCheckAgainstNonNullType
* NullAnnotationUnsupportedLocation
* NullAnnotationUnsupportedLocationAtType
* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast
* ContradictoryNullAnnotationsInferred
* NonNullDefaultDetailIsNotEvaluated
* NullNotCompatibleToFreeTypeVariable
* NullityMismatchAgainstFreeTypeVariable
* ImplicitObjectBoundNoNullDefault
* IllegalParameterNullityRedefinition
* ContradictoryNullAnnotationsInferredFunctionType
* IllegalReturnNullityRedefinitionFreeTypeVariable
* UnlikelyCollectionMethodArgumentType
* UnlikelyEqualsArgumentType
* Jesper S Moller - added the following constants
* TargetTypeNotAFunctionalInterface
* OuterLocalMustBeEffectivelyFinal
* IllegalModifiersForPackage
* DuplicateAnnotationNotMarkedRepeatable
* DisallowedTargetForContainerAnnotation
* RepeatedAnnotationWithContainerAnnotation

```
*        ContainingAnnotationMustHaveValue
*        ContainingAnnotationHasNonDefaultMembers
*        ContainingAnnotationHasWrongValueType
*         ContainingAnnotationHasShorterRetention
 *        RepeatableAnnotationHasTargets
*        RepeatableAnnotationTargetMismatch
*        RepeatableAnnotationIsDocumented
*        RepeatableAnnotationIsInherited
*        RepeatableAnnotationWithRepeatingContainerAnnotation
*        VarLocalMultipleDeclarators
*        VarLocalCannotBeArray
*        VarLocalReferencesItself
*        VarLocalWithoutInitizalier
*        VarLocalInitializedToNull
*        VarLocalCannotBeArrayInitalizers
*        VarLocalCannotBeLambda
*        VarLocalCannotBeMethodReference
*        VarIsReserved
*        VarIsReservedInFuture
*        VarIsNotAllowedHere
**********************************************************************************/
```

Found in path(s):

```
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*        bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*        bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found
in path(s):

```
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java
```

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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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*     Stephan Herrmann - Contribution for
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*        Bug 426792 - [1.8][inference][impl] generify new type inference engine
*        Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
```

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 -
[1.8][null] Bogus warning for type argument annotated with @NonNull
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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* Contributors:
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* Stephan Herrmann - Contributions for
* Bug 186342 - [compiler][null] Using annotations for null checking
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MostSpecificExceptionMethodBinding.java
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* IBM Corporation - initial API and implementation
* Walter Harley - Patch for ensuring the parent folders are created
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java
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*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 370930 - NonNull annotation not considered for enhanced for loops
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*        Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*     Jesper S Moller -  Contribution for
*        bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*                          bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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*   IBM Corporation - initial API and implementation
*   Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
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*     Erling Ellingsen -  patch for bug 125570
*     Stephan Herrmann - Contribution for
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*        Bug 544921 - [performance] Poor performance with large source files
*******************************************************************************/
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 in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
***/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExternalAnnotationSuperimposer.java
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*    Igor Fedorenko - extracted from ElementsImpl
*******************************************************************************/
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
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*   Bug 407297: [1.8][compiler] Control generation of parameter names by option
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

```
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 385626 - @NonNull fails across
 loop boundaries
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions for
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
********************************************************************************/
```

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*     Stephan Herrmann - Contributions for
*           bug 332637 - Dead Code detection removing code that isn't dead
```

* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* bug 358903 - Filter practically unimportant resource
leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
* bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
* Jesper Steen Moller -
Contributions for
* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TryStatement.java
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*        bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*        bug 404728 - [1.8]NPE on QualifiedSuperReference error
*********************************************************************************/
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*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 370639 - [compiler][resource] restore the default for resource leak warnings
*        bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*        Bug 417758 - [1.8][null] Null safety compromise during array creation.
*        Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java

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*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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*     Stephan Herrmann - Contribution for
*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
**********************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathSourceJar.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Archive.java
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*   het@google.com - Bug 441790
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking

* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
  Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********/

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*            bug 185682 - Increment/decrement operators mark local variables as read
*            bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
 null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
*******************************************************************************/
```

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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
```

* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 447088 - [null] @Nullable on fully qualified field type is ignored
* Bug 435805 - [1.8][compiler][null]

Java 8 compiler does not recognize declaration style null annotations
*   Bug 458396 - NPE in CodeStream.invoke()
*   Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*   Till Brychcy - Contribution for
*   bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Jesper S Moller - Contributions for
*        bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 *********************************************************************************/
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*     Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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*          bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*        bug 358903 - Filter practically unimportant resource leak warnings
*        bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 426792 - [1.8][inference][impl] generify new type inference engine
*        Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*        Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*        Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*        Bug 431408 - Java 8 (1.8) generics bug
*        Bug 435962 - [RC2] StackOverFlowError when building
*        Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*        Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*        Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*        Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*        Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*        Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*        Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
*        Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*        Bug 462790 - [null] NPE in Expression.computeConversion()
 *       Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*     Jesper S Møller <jesper@selskabet.org>  - Contributions for bug 381345 : [1.8] Take care of the Java 8 major
version
*        Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*   Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
*   Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
**********/

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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
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* Stephan Herrmann - Contributions for
* bug 292478 - Report potentially null across variable assignment
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field
 references
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred

checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards

* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler]
Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
* Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
* Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Scanner.java

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*   Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 458396 - NPE in CodeStream.invoke()
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
*   Robert Roth <robert.roth.off@gmail.com> - Contributions for
*   Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
**********/

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* Contributors:
*   Walter Harley - initial API and implementation
*   IBM Corporation - fix for 342598, 382590
*   Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
**********/

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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java
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*       Bug 378674 - "The method can be declared as static" is wrong
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* Contributors:
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*     Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
*       bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
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*   Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
**********/

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
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*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource
 leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*   Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*   Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*   Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*   Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*   Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*   Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*   Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional expression

*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive
 code generation support for type annotations (from Olivier's work)
*   Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*   Till Brychcy - Contributions for
*   bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
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*        Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*        Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*******************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                        type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                       type => Z  annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z                 type => Z  annotations => [[][][@T][@T][@T]]
     in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.
    */
```

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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*   Stephan Herrmann - Contributions for
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
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*
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
 into account
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                     bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                     bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
```

when using MethodSource
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*   Bug 407191 - [1.8] Binary access support for type annotations
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*   Jesper S Moller   - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Frits Jalvingh   - contributions for bug 533830.
*   Red Hat Inc.   - add module-info Javadoc support
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*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
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*   bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*   bug 186342 - [compiler][null] Using annotations for null checking
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator

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*         Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*         Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*******************************************************************************/
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*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper Steen Moller - Contributions for
*         Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
*******************************************************************************/
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*   bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.

* Bug
 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
**********/

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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/RecordComponentInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IRecordComponent.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
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* Contributors:
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*   Stephan Herrmann - contributions for
*   bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations

```
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*       Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
 ********************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/LookupEnvironment.java
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*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ArrayTypeImpl.java
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AbstractMethodDeclaration.java
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*   David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ScannerHelper.java

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 367203 - [compiler][null] detect assigning null to nonnull argument
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
```

location
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 443347 - [1.8][null]
@NonNullByDefault should not affect constructor arguments of an anonymous instantiation
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
* Bug 471611 - Error on hover on call to generic method with null annotation
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java
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* tyeung@bea.com - initial API and implementation
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/batch/BatchCompiler.java
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*         bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*         Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*         bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java
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*   bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java
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*   Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*   Stephan Herrmann - Contribution for
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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*   Stephan Herrmann - Contributions for
*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with

generics (RuntimeException instead of IOException)
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*   Stephan Herrmann - Contribution for
*   Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
*   Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*   Till Brychcy - Contribution for
*   Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
***/

```
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
   E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
   needed for correctness, but for annotated object reuse. We provide two alternate ways to
   annotate a type:

   Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
   to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
   and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
   the key, in the latter with List<String> as the key.

   Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
   alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
   the same TypeBinding.id => correctness is not an issue, but memory wastage is)
 */
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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*          Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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*         Bug 458396 - NPE in CodeStream.invoke()
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* Contributors:
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*     Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
*     Stephan Herrmann - Contribution for
*         bug 331649 - [compiler][null] consider null annotations for fields
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*         bug 335093 - [compiler][null] minimal hook for future null annotation support
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when
 compiling the Eclipse SDK
*         bug 370930 - NonNull annotation not considered for enhanced for loops
*         bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*         Bug 417758 - [1.8][null] Null safety compromise
 during array creation.
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*         Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*         Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*         Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*         Bug 455723 - Nonnull argument not correctly inferred in loop
*         Andy Clement - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
*                         Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********************************************************************************/

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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 ***/

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*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 425783 - An
 internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 379784 - [compiler] "Method can be static" is not getting reported
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*   Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
*   Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
**********/

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```
*       Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
            bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
*          bug 349326 - [1.7] new warning for missing try-with-resources
```

```
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper Steen Moller - Contributions for
*       bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*       bug 407297 - [1.8][compiler] Control generation of parameter names by option
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerOptions.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       bug 413958 - Function override returning inherited Generic Type
*       Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
```

```
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 457079 - Regression: type
 inference
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*       bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
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*          bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 365859 - [compiler][null]
 distinguish warnings based on flow analysis vs. null annotations
*        bug 385626 - @NonNull fails across loop boundaries
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 376263 - Bogus "Potential null pointer access" warning
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        bug 406384 - Internal error with I20130413
*        Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of
LoopingFlowContext and FinallyFlowContext
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*        Bug 455723 - Nonnull argument not correctly inferred in loop
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*        Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
*     Jesper S Moller - contributions for
*        bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

* bug 345305 - [compiler][null]
Compiler misidentifies a case of "variable can only be null"
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 458396 - NPE in CodeStream.invoke()
* Jesper S Moller - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
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1.468 glibc 2.31-0ubuntu9.9

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1.474 libpkit 0.24.0-6build1

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1.478 mawk 1.3.4.20200120-3

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1.479 metrics-graphite 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.graphite
Build-Jdk-Spec: 17
Bundle-Description: A reporter for Metrics which announces measurement
s to a Graphite server.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Graphite Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.graphite
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.graphite;uses:="com.codahale.metr

ics,com.rabbitmq.client,javax.net";version="4.2.23"
Implementation-Title: Graphite Integration for Metrics
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",com.rabbitmq.client;version="[5.20,6)",javax.net
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

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* /metrics-graphite-4-2-23-jar/META-INF/MANIFEST.MF

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

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

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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a) Accompany

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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Gnomovision version 69, Copyright (C) 19xx name of author
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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You should also get your employer (if you work as a programmer) or your
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Yoyodyne, Inc., hereby disclaims
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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
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That's all there is to it!

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

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

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

The hypothetical commands `show w' and `show c' should show the
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Of course, the
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necessary. Here a sample; alter the names:

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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

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

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

```
use 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;
}
```

1.490 shadow 1:4.8.1-2ubuntu2.2

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```
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****

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1.491 mailcap 3.70+nmu1ubuntu1

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1.493 jetty-servlets 9.4.57.v20241219

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.494 libedit 3.1-20210910-1build1

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1.495 helm v3.15.2

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1.496 libxrender 1:0.9.10-1build4

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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1.498 jetty-setuid-java 1.0.4

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Found in path(s):
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Group.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/RLimit.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Passwd.java

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1.500 metrics-httpclient 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.httpclient
Build-Jdk-Spec: 17
Bundle-Description: An Apache HttpClient wrapper providing Metrics ins
trumentation of connection pools, request durations and rates,
and other useful information.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Apache HttpClient
Bundle-SymbolicName: io.dropwizard.metrics.httpclient
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.httpclient;uses:="com.codahale.me
trics,org.apache.http,org.apache.http.config,org.apache.http.conn,org
.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.http
.impl.client,org.apache.http.impl.conn,org.apache.http.protocol";vers
ion="4.2.23"
Implementation-Title: Metrics Integration for Apache HttpClient
Implementation-Version: 4.2.23

Import-Package:
com.codahale.metrics;version="[4.2,5)",org.apache.http
,org.apache.http.client,org.apache.http.client.methods,org.apache.htt
p.client.utils,org.apache.http.config,org.apache.http.conn,org.apache
.http.conn.routing,org.apache.http.conn.socket,org.apache.http.conn.s
sl,org.apache.http.impl.client,org.apache.http.impl.conn,org.apache.h
ttp.pool,org.apache.http.protocol
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-httpclient-4-2-23-jar/META-INF/MANIFEST.MF

1.501 libxcrypt 1:4.4.10-10ubuntu4

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1.502 oniguruma 6.9.7.1-2build1

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1.503 vpp_papi 2.3.0

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1.504 jackson-dataformat-yaml 2.16.1

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1.505 snake-yaml 2.0

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/**
* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
* source-code.biz/base64coder/java</a><br>
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
*
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/Representer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedTagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
*
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedPrefixesTagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/Mark.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/YAMLException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java

* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/TypeDescription.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
*
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/Token.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
*
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/Composer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/internal/Logger.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
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 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/Event.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java

1.506 ncurses 6.4+20240113-1ubuntu2

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1.507 libapache2-mod-authnz-external 3.3.2-0.2

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* /libapache2-mod-authnz-external-3-3-2-orig-1-tar-gz/mod_authnz_external-3.3.2/mod_authnz_external.c

1.508 libcbor 0.8.0-2ubuntu1

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1.509 spf13-pflag 1.0.10

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1.510 libxi 2:1.8-1build1

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
===
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -348,6 +348,65 @@
return PAM_SUCCESS;

```
}

+int display_legal(pam_handle_t *pamh)
+{
+   int retval = PAM_IGNORE, rc;
+   char *user = NULL;
+   char *dir = NULL;
+   char *flag = NULL;
+   struct passwd *pwd = NULL;
+   struct stat s;
+   int f;
+   /* Get the user name to determine if we need to print the disclaimer */
+   rc = pam_get_item(pamh, PAM_USER, &user);
+   if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+   {
+      PAM_MODUTIL_DEF_PRIVS(privs);
+
+
     /* Get the password entry */
+      pwd = pam_modutil_getpwnam (pamh, user);
+      if (pwd != NULL)
+      {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+            pam_syslog(pamh, LOG_ERR,
+                  "Unable to change UID to %d temporarily\n",
+                  pwd->pw_uid);
+            retval = PAM_SESSION_ERR;
+            goto finished;
+         }
+
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+
+         if (stat(flag, &s) != 0)
+         {
+            int fd = open("/etc/legal", O_RDONLY, 0);
+            if (fd >= 0) {
+               try_to_display_fd(pamh, fd);
+               close(fd);
+            }
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+
           S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            if (f>=0) close(f);
+         }
```

```
+
+finished:
+           if (pam_modutil_regain_priv(pamh, &privs)) {
+               pam_syslog(pamh, LOG_ERR,
+                          "Unable to change UID back to %d\n", privs.old_uid);
+               retval = PAM_SESSION_ERR;
+           }
+
+           _pam_drop(flag);
+           _pam_drop(dir);
+       }
+   }
+   return retval;
+}
+
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
{
@@ -446,6 +505,9 @@
                        motd_dir_path_split, num_motd_dir_paths,
                        report_missing);

+   /* Display the legal disclaimer only if necessary */
+   retval = display_legal(pamh);
+
 out:
   _pam_drop(motd_path_copy);
   _pam_drop(motd_path_split);
```

1.513 python-pip 25.3

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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:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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A. HISTORY OF THE SOFTWARE
==========

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

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

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

Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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Mathematisch Centrum (CWI, see https://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 https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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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
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2.2 and above	2.1.1	2001-now	PSF	yes

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object
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a) Accompany the
work with the complete corresponding
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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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1.521 metrics-logback 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.logback
Build-Jdk-Spec: 17
Bundle-Description: An instrumented appender for Logback.

Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Logback
Bundle-SymbolicName: io.dropwizard.metrics.logback
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.cla
ssic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.2.23"
Implementation-Title: Metrics Integration for Logback
Implementation-Version: 4.2.23
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logbac
k.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)"
,com.codahale.metrics;version="[4.2,5)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
*
/metrics-logback-4-2-23-jar/META-INF/MANIFEST.MF

1.522 e2fsprogs 1.47.0-2.4~exp1ubuntu4.1

1.522.1 Available under license :

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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Upstream-Name: e2fsprogs
Upstream-Contact: Theodore Ts'o <tytso@mit.edu>
Source: http://sourceforge.net/projects/e2fsprogs

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

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debugfs/do_journal.c
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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

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Ty Coon, President of Vice

That's all there is to it!
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

```
all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
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1.523 kerberos 1.17-6ubuntu4.3

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c

lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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  lib/gssapi/mechglue/g_accept_sec_context.c
  lib/gssapi/mechglue/g_acquire_cred.c
  lib/gssapi/mechglue/g_canon_name.c
  lib/gssapi/mechglue/g_compare_name.c
  lib/gssapi/mechglue/g_context_time.c
  lib/gssapi/mechglue/g_delete_sec_context.c
  lib/gssapi/mechglue/g_dsp_name.c
  lib/gssapi/mechglue/g_dsp_status.c
  lib/gssapi/mechglue/g_dup_name.c
  lib/gssapi/mechglue/g_exp_sec_context.c
  lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
  lib/gssapi/mechglue/g_imp_name.c
  lib/gssapi/mechglue/g_imp_sec_context.c
  lib/gssapi/mechglue/g_init_sec_context.c
  lib/gssapi/mechglue/g_initialize.c
  lib/gssapi/mechglue/g_inquire_context.c
  lib/gssapi/mechglue/g_inquire_cred.c
  lib/gssapi/mechglue/g_inquire_names.c
  lib/gssapi/mechglue/g_process_context.c
  lib/gssapi/mechglue/g_rel_buffer.c
  lib/gssapi/mechglue/g_rel_cred.c
  lib/gssapi/mechglue/g_rel_name.c
  lib/gssapi/mechglue/g_rel_oid_set.c
  lib/gssapi/mechglue/g_seal.c
  lib/gssapi/mechglue/g_sign.c
  lib/gssapi/mechglue/g_store_cred.c
  lib/gssapi/mechglue/g_unseal.c
  lib/gssapi/mechglue/g_userok.c
  lib/gssapi/mechglue/g_utils.c
  lib/gssapi/mechglue/g_verify.c
  lib/gssapi/mechglue/gssd_pname_to_uid.c
  lib/gssapi/mechglue/mglueP.h
  lib/gssapi/mechglue/oid_ops.c
  lib/gssapi/spnego/gssapiP_spnego.h
  lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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on:
 push:
   branches:
     - main
     - release-*
 pull_request:
   branches:
     - main
     - release-*

permissions:
 contents: write
 pull-requests: write

jobs:
```

```
check-license:
  runs-on: ubuntu-latest
  steps:
    - name: Checkout
      uses: actions/checkout@v4
    - name: Check license header
      uses: apache/skywalking-eyes/header@v0.7.0
      with:
        mode:
check
        config: .github/licenserc.yml
    - name: Check dependencies license
      uses: apache/skywalking-eyes/dependency@v0.7.0
      with:
        config: .github/licenserc.yml
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1.528 xlwt 1.3.0

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* /spring-context-5-3-33-sources-jar/org/springframework/cache/config/CacheManagementConfigUtils.java
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* /spring-context-5-3-33-sources-
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* /spring-context-5-3-33-sources-jar/org/springframework/jmx/support/ObjectNameManager.java
* /spring-context-5-3-33-sources-jar/org/springframework/remoting/support/SimpleHttpServerFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/MBeanExportOperations.java
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* /spring-context-5-3-33-sources-
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* /spring-context-5-3-33-sources-jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/standard/DateTimeConverters.java

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* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/ScopedProxyCreator.java
* /spring-context-5-3-33-sources-jar/org/springframework/scripting/support/ResourceScriptSource.java
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* /spring-context-5-3-33-sources-jar/org/springframework/context/i18n/LocaleContextHolder.java
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* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/ConfigurationClassParser.java
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* /spring-context-5-3-33-sources-
jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
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* /spring-context-5-3-33-sources-
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* /spring-context-5-3-33-sources-jar/org/springframework/validation/MessageCodeFormatter.java
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* /spring-context-5-3-33-sources-jar/org/springframework/remoting/RemoteInvocationFailureException.java
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* /spring-context-5-3-33-sources-jar/org/springframework/jndi/JndiLookupFailureException.java
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* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/Trigger.java
* /spring-context-5-3-33-sources-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
* /spring-context-5-3-33-sources-jar/org/springframework/validation/BindingResultUtils.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/Phased.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /spring-context-5-3-33-sources-jar/org/springframework/ui/context/support/SimpleTheme.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/NoSuchMessageException.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/event/ContextStoppedEvent.java
*
 /spring-context-5-3-33-sources-jar/org/springframework/validation/BindingErrorProcessor.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/access/InvocationFailureException.java
* /spring-context-5-3-33-sources-jar/org/springframework/remoting/RemoteConnectFailureException.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/MBeanExporterListener.java
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* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/joda/DateTimeParser.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/Description.java
*
/spring-context-5-3-33-sources-jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /spring-context-5-3-33-sources-
jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/i18n/LocaleContext.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/joda/LocalDateParser.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/FilterType.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
*
/spring-context-5-3-33-sources-jar/org/springframework/format/datetime/joda/LocalTimeParser.java
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* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/ConfigurationClass.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/SmartLifecycle.java
* /spring-context-5-3-33-sources-
jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
*
/spring-context-5-3-33-sources-jar/org/springframework/scheduling/support/CronExpression.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/support/QuartzCronField.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/support/BitsCronField.java
* /spring-context-5-3-33-sources-

jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/support/CronTrigger.java
* /spring-context-5-3-33-sources-
jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/AbstractApplicationContext.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/annotation/Scheduled.java
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jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/support/SimpleValueWrapper.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/EnvironmentAware.java
*
 /spring-context-5-3-33-sources-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /spring-context-5-3-33-sources-jar/org/springframework/scripting/support/StandardScriptEvaluator.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/config/Task.java
* /spring-context-5-3-33-sources-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
* /spring-context-5-3-33-sources-
jar/org/springframework/format/support/FormattingConversionServiceFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /spring-context-5-3-33-sources-jar/org/springframework/jndi/JndiObjectTargetSource.java
* /spring-context-5-3-33-sources-
jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
*
 /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/expression/MapAccessor.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactory.java
* /spring-context-5-3-33-sources-jar/org/springframework/jndi/JndiAccessor.java
* /spring-context-5-3-33-sources-jar/org/springframework/validation/DefaultMessageCodesResolver.java

* /spring-context-5-3-33-sources-jar/org/springframework/remoting/support/RemoteAccessor.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
* /spring-context-5-3-33-sources-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
*
/spring-context-5-3-33-sources-jar/org/springframework/jmx/access/ConnectorDelegate.java
* /spring-context-5-3-33-sources-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/config/IntervalTask.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
* /spring-context-5-3-33-sources-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /spring-context-5-3-33-sources-
jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /spring-context-5-3-33-sources-
jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
*
/spring-context-5-3-33-sources-
jar/org/springframework/scheduling/annotation/AnnotationAsyncExecutionInterceptor.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/config/FixedRateTask.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/support/MetricType.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
* /spring-context-5-3-33-sources-
jar/org/springframework/format/datetime/joda/DateTimeFormatterFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/joda/JodaTimeFormatterRegistrar.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/expression/AnnotatedElementKey.java
* /spring-context-5-3-33-sources-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/NotificationListenerBean.java
*
/spring-context-5-3-33-sources-jar/org/springframework/scheduling/config/FixedDelayTask.java
* /spring-context-5-3-33-sources-jar/org/springframework/ejb/access/SimpleRemoteSlsbInvokerInterceptor.java
* /spring-context-5-3-33-sources-jar/org/springframework/remoting/support/RemoteExporter.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /spring-context-5-3-33-sources-jar/org/springframework/stereotype/Indexed.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /spring-context-5-3-33-sources-
jar/org/springframework/jmx/export/assembler/MethodExclusionMBeanInfoAssembler.java
* /spring-context-5-3-33-sources-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/metadata/ManagedResource.java
*
/spring-context-5-3-33-sources-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/MessageSourceResolvable.java

* /spring-context-5-3-33-sources-jar/org/springframework/context/support/ApplicationListenerDetector.java
* /spring-context-5-3-33-sources-
jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
* /spring-context-5-3-33-sources-
jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/DelegatingMessageSource.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /spring-context-5-3-33-sources-
jar/org/springframework/format/datetime/joda/JodaDateTimeFormatAnnotationFormatterFactory.java
*
/spring-context-5-3-33-sources-jar/org/springframework/cache/support/NullValue.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/joda/JodaTimeContext.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/config/CacheNamespaceHandler.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/ConversionServiceFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/number/NumberStyleFormatter.java
* /spring-context-5-3-33-sources-
jar/org/springframework/instrument/classloading/websphere/WebSphereLoadTimeWeaver.java
* /spring-context-5-3-33-sources-
jar/org/springframework/instrument/classloading/weblogic/WebLogicClassPreProcessorAdapter.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
* /spring-context-5-3-33-sources-jar/org/springframework/scripting/ScriptFactory.java
*
/spring-context-5-3-33-sources-jar/org/springframework/jmx/support/NotificationListenerHolder.java
* /spring-context-5-3-33-sources-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/number/CurrencyStyleFormatter.java
* /spring-context-5-3-33-sources-jar/org/springframework/stereotype/Component.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/DateFormatterRegistrar.java
* /spring-context-5-3-33-sources-
jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/config/TriggerTask.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
*
/spring-context-5-3-33-sources-jar/org/springframework/scripting/support/StaticScriptSource.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /spring-context-5-3-33-sources-jar/org/springframework/remoting/rmi/RmiProxyFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java
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*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see {@link Condition} for details).
*
*
 <p>The {@code @Conditional} annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* {@code @Component}, including {@link Configuration @Configuration} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any {@link Bean @Bean} method</li>
* </ul>
*
* <p>If a {@code @Configuration} class is marked with {@code @Conditional},
```

* all of the {@code @Bean} methods, {@link Import @Import} annotations, and
* {@link ComponentScan @ComponentScan} annotations associated with that
* class will be subject to the conditions.
*
* <p>NOTE: Inheritance of {@code @Conditional} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* {@code @Conditional} itself is not declared as
* {@link java.lang.annotation.Inherited
 @Inherited}; furthermore, any
* custom composed annotation that is meta-annotated with
* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* /spring-context-5-3-33-sources-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/ApplicationContext.java
*
 /spring-context-5-3-33-sources-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/BasicOperation.java

* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/PropertySources.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
* /spring-context-5-3-33-sources-jar/org/springframework/validation/annotation/Validated.java
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provides a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
 *
* @author Stephane Nicoll
* @since 4.1
*/

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* /spring-context-5-3-33-sources-jar/org/springframework/cache/support/AbstractCacheManager.java
* /spring-context-5-3-33-sources-jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
*
 /spring-context-5-3-33-sources-jar/org/springframework/cache/annotation/AnnotationCacheOperationSource.java
* /spring-context-5-3-33-sources-jar/org/springframework/ui/ModelMap.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/StaticMessageSource.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/CacheManager.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/validation/ObjectError.java
*
 /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/CacheOperationSource.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/ApplicationEventPublisher.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/Import.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/event/EventExpressionEvaluator.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /spring-context-5-3-33-sources-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/annotation/CacheAnnotationParser.java
*
 /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/annotation/Async.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/MessageSource.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/standard/InstantFormatter.java
* /spring-context-5-3-33-sources-jar/org/springframework/jndi/JndiTemplateEditor.java
*
 /spring-context-5-3-33-sources-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/support/TaskUtils.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/StaticApplicationContext.java

* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
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*/
/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the {@code MBeanServer} for bean references.
*
* <p>This {@code FactoryBean} is
```

a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's {@link MBeanServer}.
*
* <p>See the javadocs for WebSphere's
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs/com/ibm/websphere/management/AdminServiceFactory.html">{@code AdminServiceFactory}
* and
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs/com/ibm/websphere/management/MBeanFactory.html">{@code MBeanFactory}.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

Found in path(s):
* /spring-context-5-3-33-sources-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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* /spring-context-5-3-33-sources-jar/org/springframework/context/event/SourceFilteringListener.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
*
/spring-context-5-3-33-sources-jar/org/springframework/format/datetime/standard/DateTimeContext.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/event/SmartApplicationListener.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/annotation/DateTimeFormat.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/event/ApplicationEventMulticaster.java

* /spring-context-5-3-33-sources-jar/org/springframework/ui/ConcurrentModel.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/LiveBeansView.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/ConfigurationClassEnhancer.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/event/GenericApplicationListener.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/GenericGroovyApplicationContext.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/ApplicationEvent.java
*
/spring-context-5-3-33-sources-jar/org/springframework/validation/support/BindingAwareModelMap.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/MessageSourceSupport.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/FormatterRegistrar.java
* /spring-context-5-3-33-sources-
jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/support/CompositeCronField.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/CachePutOperation.java
* /spring-context-5-3-33-sources-
jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/CacheOperation.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/AnnotationConfigUtils.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
*
/spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/CacheEvictOperation.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/ConfigurationClassUtils.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/PayloadApplicationEvent.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/annotation/EnableScheduling.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/ApplicationListener.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/ConfigurationMethod.java
* /spring-context-5-3-33-sources-jar/org/springframework/jndi/JndiCallback.java
* /spring-context-5-3-33-sources-jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
*
/spring-context-5-3-33-sources-jar/org/springframework/context/annotation/TypeFilterUtils.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/annotation/AbstractCachingConfiguration.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/config/CronTask.java
* /spring-context-5-3-33-sources-
jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/annotation/Lazy.java
* /spring-context-5-3-33-sources-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/standard/DateTimeFormatterUtils.java
* /spring-context-5-3-33-sources-jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
*
/spring-context-5-3-33-sources-jar/org/springframework/cache/annotation/CachingConfigurer.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/ResourceLoaderAware.java
* /spring-context-5-3-33-sources-jar/org/springframework/context/event/EventListener.java
* /spring-context-5-3-33-sources-
jar/org/springframework/context/annotation/ComponentScanAnnotationParser.java

* /spring-context-5-3-33-sources-jar/org/springframework/context/index/CandidateComponentsIndexLoader.java
* /spring-context-5-3-33-sources-
jar/org/springframework/format/datetime/DateTimeFormatAnnotationFormatterFactory.java
* /spring-context-5-3-33-sources-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactory.java
* /spring-context-5-3-33-sources-jar/org/springframework/format/datetime/DateFormatter.java
* /spring-context-5-3-33-sources-
jar/org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java
*
/spring-context-5-3-33-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /spring-context-5-3-33-sources-jar/org/springframework/cache/interceptor/CacheableOperation.java

1.533 jetty 9.4.57.v20241219

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.534 pcre2 10.42-4ubuntu2.1

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* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_aix.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_pam.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/fail_check.c
*
 /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/snooze.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/main.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/pwauth.h
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_hpux.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_mdw.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_openbsd.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/nologin.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/lastlog.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_sun.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_bsd.c

1.539 lua 5.3.6-1build1

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```
@Ci{$Id: manual.of,v 1.167.1.2 2018/06/26 15:49:07 roberto Exp $}
@C{[(----------------------------------------------------------------------}
@manual{

@sect1{@title{Introduction}

Lua is a powerful, efficient, lightweight, embeddable scripting language.
It supports procedural programming,
object-oriented programming, functional programming,
data-driven programming, and data description.

Lua combines simple procedural syntax with powerful data description
constructs based on associative arrays and extensible semantics.
```

Lua is dynamically typed,
runs by interpreting bytecode with a register-based
virtual machine,
and has automatic memory management with
incremental garbage collection,
making it ideal for configuration, scripting,
and rapid prototyping.

Lua is implemented as a library, written in @emphx{clean C},
the common subset of @N{Standard C} and C++.
The Lua distribution includes a host program called @id{lua},
which
uses the Lua library to offer a complete,
standalone Lua interpreter,
for interactive or batch use.
Lua is intended to be used both as a powerful, lightweight,
embeddable scripting language for any program that needs one,
and as a powerful but lightweight and efficient stand-alone language.

As an extension language, Lua has no notion of a @Q{main} program:
it works @emph{embedded} in a host client,
called the @emph{embedding program} or simply the @emphx{host}.
(Frequently, this host is the stand-alone @id{lua} program.)
The host program can invoke functions to execute a piece of Lua code,
can write and read Lua variables,
and can register @N{C functions} to be called by Lua code.
Through the use of @N{C functions}, Lua can be augmented to cope with
a wide range of different domains,
thus creating customized programming languages sharing a syntactical framework.

Lua is free software,
and is provided as usual with no guarantees,
as stated in its license.
The implementation
described in this manual is available
at Lua's official web site, @id{www.lua.org}.

Like any other reference manual,
this document is dry in places.
For a discussion of the decisions behind the design of Lua,
see the technical papers available at Lua's web site.
For a detailed introduction to programming in Lua,
see Roberto's book, @emphx{Programming in Lua}.

}

@C{--}

@sect1{basic| @title{Basic Concepts}

This section describes the basic concepts of the language.

@sect2{TypesSec| @title{Values and Types}

Lua is a @emph{dynamically typed language}.
This means that
variables do not have types; only values do.
There are no type definitions in the language.
All values carry their own type.

All values in Lua are @emph{first-class values}.
This means that all values can be stored in variables,
passed as arguments to other functions, and returned as results.

There are eight @x{basic types} in Lua:
@def{nil}, @def{boolean},
@def{number},
@def{string}, @def{function}, @def{userdata},
@def{thread}, and @def{table}.
The type @emph{nil} has one single value, @nil,
whose main property is to be different from any other value;
it usually represents the absence of a useful value.
The type @emph{boolean} has two values, @false and @true.
Both @nil and @false make a condition false;
any other value makes it true.
The type @emph{number} represents both
integer numbers and real (floating-point) numbers.
The type @emph{string} represents immutable sequences of bytes.
@index{eight-bit clean}
Lua is 8-bit clean:
strings can contain any 8-bit value,
including @x{embedded zeros} (@Char{\0}).
Lua is also encoding-agnostic;
it makes no assumptions about the contents of a string.

The type @emph{number} uses two internal representations,
or two @x{subtypes},
one called @def{integer} and the other called @def{float}.
Lua has explicit rules about when each representation is used,
but it also converts between them automatically
as needed @see{coercion}.
Therefore,
the programmer may choose to mostly ignore the difference
between integers and floats
or to assume complete control over the representation of each number.
Standard Lua uses 64-bit integers and double-precision (64-bit) floats,

but you can also compile Lua so that it
uses 32-bit integers and/or single-precision (32-bit) floats.
The option with 32 bits for both integers and floats
is particularly attractive
for small machines and embedded systems.
(See macro @id{LUA_32BITS} in file @id{luaconf.h}.)

Lua can call (and manipulate) functions written in Lua and
functions written in C @see{functioncall}.
Both are represented by the type @emph{function}.

The type @emph{userdata} is provided to allow arbitrary @N{C data} to
be stored in Lua variables.
A userdata value represents a block of raw memory.
There are two kinds of userdata:
@emphx{full userdata},
which is an object with a block of memory managed by Lua,
and @emphx{light userdata},
which
is simply a @N{C pointer} value.
Userdata has no predefined operations in Lua,
except assignment and identity test.
By using @emph{metatables},
the programmer can define operations for full userdata values
@see{metatable}.
Userdata values cannot be created or modified in Lua,
only through the @N{C API}.
This guarantees the integrity of data owned by the host program.

The type @def{thread} represents independent threads of execution
and it is used to implement coroutines @see{coroutine}.
Lua threads are not related to operating-system threads.
Lua supports coroutines on all systems,
even those that do not support threads natively.

The type @emph{table} implements @x{associative arrays},
that is, @x{arrays} that can have as indices not only numbers,
but any Lua value except @nil and @x{NaN}.
(@emphx{Not a Number} is a special value used to represent
undefined or unrepresentable numerical results, such as @T{0/0}.)
Tables can be @emph{heterogeneous};
that is, they can contain values of
all types (except @nil).
Any key with value @nil is not considered part of the table.
Conversely, any key that is not part of a table has
an associated value @nil.

Tables are the sole data-structuring mechanism in Lua;

they can be used to represent ordinary arrays, lists,
symbol tables, sets, records, graphs, trees, etc.
To represent @x{records}, Lua uses the field name as an index.
The language supports this representation by
providing @id{a.name} as syntactic sugar for @T{a["name"]}.
There are several convenient ways to create tables in Lua
@see{tableconstructor}.

Like indices,
the values of table fields can be of any type.
In particular,
because functions are first-class values,
table fields can contain functions.
Thus tables can also carry @emph{methods} @see{func-def}.

The indexing of tables follows
the definition of raw equality in the language.
The expressions @T{a[i]} and @T{a[j]}
denote the same table element
if and only if @id{i} and @id{j} are raw equal
(that is, equal
 without metamethods).
In particular, floats with integral values
are equal to their respective integers
(e.g., @T{1.0 == 1}).
To avoid ambiguities,
any float with integral value used as a key
is converted to its respective integer.
For instance, if you write @T{a[2.0] = true},
the actual key inserted into the table will be the
integer @T{2}.
(On the other hand,
2 and @St{2} are different Lua values and therefore
denote different table entries.)

Tables, functions, threads, and (full) userdata values are @emph{objects}:
variables do not actually @emph{contain} these values,
only @emph{references} to them.
Assignment, parameter passing, and function returns
always manipulate references to such values;
these operations do not imply any kind of copy.

The library function @Lid{type} returns a string describing the type
of a given value @see{predefined}.

}

@sect2{globalenv| @title{Environments and the Global Environment}

As will be discussed in @refsec{variables} and @refsec{assignment},
any
 reference to a free name
(that is, a name not bound to any declaration) @id{var}
is syntactically translated to @T{_ENV.var}.
Moreover, every chunk is compiled in the scope of
an external local variable named @id{_ENV} @see{chunks},
so @id{_ENV} itself is never a free name in a chunk.

Despite the existence of this external @id{_ENV} variable and
the translation of free names,
@id{_ENV} is a completely regular name.
In particular,
you can define new variables and parameters with that name.
Each reference to a free name uses the @id{_ENV} that is
visible at that point in the program,
following the usual visibility rules of Lua @see{visibility}.

Any table used as the value of @id{_ENV} is called an @def{environment}.

Lua keeps a distinguished environment called the @def{global environment}.
This value is kept at a special index in the C registry @see{registry}.
In Lua, the global variable @Lid{_G} is initialized with this same value.
(@Lid{_G} is never used internally.)

When Lua
 loads a chunk,
the default value for its @id{_ENV} upvalue
is the global environment @seeF{load}.
Therefore, by default,
free names in Lua code refer to entries in the global environment
(and, therefore, they are also called @def{global variables}).
Moreover, all standard libraries are loaded in the global environment
and some functions there operate on that environment.
You can use @Lid{load} (or @Lid{loadfile})
to load a chunk with a different environment.
(In C, you have to load the chunk and then change the value
of its first upvalue.)

}

@sect2{error| @title{Error Handling}

Because Lua is an embedded extension language,
all Lua actions start from @N{C code} in the host program
calling a function from the Lua library.

(When you use Lua standalone,
the @id{lua} application is the host program.)
Whenever an error occurs during
the compilation or execution of a Lua chunk,
control returns to the host,
which can take appropriate measures
(such as printing an error message).

Lua code
can explicitly generate an error by calling the
@Lid{error} function.
If you need to catch errors in Lua,
you can use @Lid{pcall} or @Lid{xpcall}
to call a given function in @emphx{protected mode}.

Whenever there is an error,
an @def{error object} (also called an @def{error message})
is propagated with information about the error.
Lua itself only generates errors whose error object is a string,
but programs may generate errors with
any value as the error object.
It is up to the Lua program or its host to handle such error objects.

When you use @Lid{xpcall} or @Lid{lua_pcall},
you may give a @def{message handler}
to be called in case of errors.
This function is called with the original error object
and returns a new error object.
It is called before the error unwinds the stack,
so that it can gather more information about the error,
for instance by inspecting the stack and creating a stack traceback.
This message handler is still protected by the protected call;
so, an error inside
the message handler
will call the message handler again.
If this loop goes on for too long,
Lua breaks it and returns an appropriate message.
(The message handler is called only for regular runtime errors.
It is not called for memory-allocation errors
nor for errors while running finalizers.)

}

@sect2{metatable| @title{Metatables and Metamethods}

Every value in Lua can have a @emph{metatable}.
This @def{metatable} is an ordinary Lua table

that defines the behavior of the original value
under certain special operations.
You can change several aspects of the behavior
of operations over a value by setting specific fields in its metatable.
For instance, when a non-numeric value is the operand of an addition,
Lua checks for a function in the field @St{__add} of the value's metatable.
If it finds one,
Lua calls this function to perform the addition.

The key for each event in a metatable is a string
with the event name prefixed by two underscores;
the corresponding values are called @def{metamethods}.
In
the previous example, the key is @St{__add}
and the metamethod is the function that performs the addition.
Unless stated otherwise,
metamethods should be function values.

You can query the metatable of any value
using the @Lid{getmetatable} function.
Lua queries metamethods in metatables using a raw access @seeF{rawget}.
So, to retrieve the metamethod for event @id{ev} in object @id{o},
Lua does the equivalent to the following code:
@verbatim{
rawget(getmetatable(@rep{o}) or {}, "__@rep{ev}")
}

You can replace the metatable of tables
using the @Lid{setmetatable} function.
You cannot change the metatable of other types from Lua code
(except by using the @link{debuglib|debug library});
you should use the @N{C API} for that.

Tables and full userdata have individual metatables
(although multiple tables and userdata can share their metatables).
Values of all other types share one single metatable per type;
that is, there is one single metatable for all numbers,
one for all
strings, etc.
By default, a value has no metatable,
but the string library sets a metatable for the string type @see{strlib}.

A metatable controls how an object behaves in
arithmetic operations, bitwise operations,
order comparisons, concatenation, length operation, calls, and indexing.
A metatable also can define a function to be called
when a userdata or a table is @link{GC|garbage collected}.

For the unary operators (negation, length, and bitwise NOT),
the metamethod is computed and called with a dummy second operand,
equal to the first one.
This extra operand is only to simplify Lua's internals
(by making these operators behave like a binary operation)
and may be removed in future versions.
(For most uses this extra operand is irrelevant.)

A detailed list of events controlled by metatables is given next.
Each operation is identified by its corresponding key.

@description{

@item{@idx{__add}|
the addition (@T{+}) operation.
If any operand for an addition is not a number
(nor
 a string coercible to a number),
Lua will try to call a metamethod.
First, Lua will check the first operand (even if it is valid).
If that operand does not define a metamethod for @idx{__add},
then Lua will check the second operand.
If Lua can find a metamethod,
it calls the metamethod with the two operands as arguments,
and the result of the call
(adjusted to one value)
is the result of the operation.
Otherwise,
it raises an error.
}

@item{@idx{__sub}|
the subtraction (@T{-}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__mul}|
the multiplication (@T{*}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__div}|
the division (@T{/}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__mod}|
the modulo (@T{%}) operation.

Behavior similar to the addition operation.
}

@item{@idx{__pow}|
the exponentiation (@T{^}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__unm}|
the negation (unary @T{-}) operation.
Behavior
similar to the addition operation.
}

@item{@idx{__idiv}|
the floor division (@T{//}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__band}|
the bitwise AND (@T{&}) operation.
Behavior similar to the addition operation,
except that Lua will try a metamethod
if any operand is neither an integer
nor a value coercible to an integer @see{coercion}.
}

@item{@idx{__bor}|
the bitwise OR (@T{|}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__bxor}|
the bitwise exclusive OR (binary @T{~}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__bnot}|
the bitwise NOT (unary @T{~}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__shl}|
the bitwise left shift (@T{<<}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__shr}|

the bitwise right shift (@T{>>}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__concat}|
the concatenation (@T{..}) operation.
Behavior
similar to the addition operation,
except that Lua will try a metamethod
if any operand is neither a string nor a number
(which is always coercible to a string).
}

@item{@idx{__len}|
the length (@T{#}) operation.
If the object is not a string,
Lua will try its metamethod.
If there is a metamethod,
Lua calls it with the object as argument,
and the result of the call
(always adjusted to one value)
is the result of the operation.
If there is no metamethod but the object is a table,
then Lua uses the table length operation @see{len-op}.
Otherwise, Lua raises an error.
}

@item{@idx{__eq}|
the equal (@T{==}) operation.
Behavior similar to the addition operation,
except that Lua will try a metamethod only when the values
being compared are either both tables or both full userdata
and they are not primitively equal.
The result of the call is always converted to a boolean.
}

@item{@idx{__lt}|
the less than (@T{<}) operation.
Behavior similar to the addition operation,
except that
Lua will try a metamethod only when the values
being compared are neither both numbers nor both strings.
The result of the call is always converted to a boolean.
}

@item{@idx{__le}|
the less equal (@T{<=}) operation.
Unlike other operations,

the less-equal operation can use two different events.
First, Lua looks for the @idx{__le} metamethod in both operands,
like in the less than operation.
If it cannot find such a metamethod,
then it will try the @idx{__lt} metamethod,
assuming that @T{a <= b} is equivalent to @T{not (b < a)}.
As with the other comparison operators,
the result is always a boolean.
(This use of the @idx{__lt} event can be removed in future versions;
it is also slower than a real @idx{__le} metamethod.)
}

@item{@idx{__index}|
The indexing access operation @T{table[key]}.
This event happens when @id{table} is not a table or
when @id{key} is not present in @id{table}.
The metamethod is looked up in @id{table}.

Despite the name,
the metamethod for this event can be either
a function or a table.
If it is a function,
it is called with @id{table} and @id{key} as arguments,
and the result of the call
(adjusted to one value)
is the result of the operation.
If it is a table,
the final result is the result of indexing this table with @id{key}.
(This indexing is regular, not raw,
and therefore can trigger another metamethod.)
}

@item{@idx{__newindex}|
The indexing assignment @T{table[key] = value}.
Like the index event,
this event happens when @id{table} is not a table or
when @id{key} is not present in @id{table}.
The metamethod is looked up in @id{table}.

Like with indexing,
the metamethod for this event can be either a function or a table.
If it is a function,
it is called with @id{table}, @id{key}, and @id{value} as arguments.
If it is a table,
Lua does an indexing assignment to this table with the same key and value.
(This assignment is regular, not raw,
and therefore can trigger another metamethod.)

Whenever there is a @idx{__newindex} metamethod,
Lua
 does not perform the primitive assignment.
(If necessary,
the metamethod itself can call @Lid{rawset}
to do the assignment.)
}

@item{@idx{__call}|
The call operation @T{func(args)}.
This event happens when Lua tries to call a non-function value
(that is, @id{func} is not a function).
The metamethod is looked up in @id{func}.
If present,
the metamethod is called with @id{func} as its first argument,
followed by the arguments of the original call (@id{args}).
All results of the call
are the result of the operation.
(This is the only metamethod that allows multiple results.)
}

}

It is a good practice to add all needed metamethods to a table
before setting it as a metatable of some object.
In particular, the @idx{__gc} metamethod works only when this order
is followed @see{finalizers}.

Because metatables are regular tables,
they can contain arbitrary fields,
not only the event names defined above.
Some functions in the standard library
(e.g., @Lid{tostring})
use other fields in metatables
 for their own purposes.

}

@sect2{GC| @title{Garbage Collection}

Lua performs automatic memory management.
This means that
you do not have to worry about allocating memory for new objects
or freeing it when the objects are no longer needed.
Lua manages memory automatically by running
a @def{garbage collector} to collect all @emph{dead objects}
(that is, objects that are no longer accessible from Lua).
All memory used by Lua is subject to automatic management:

strings, tables, userdata, functions, threads, internal structures, etc.

Lua implements an incremental mark-and-sweep collector.
It uses two numbers to control its garbage-collection cycles:
the @def{garbage-collector pause} and
the @def{garbage-collector step multiplier}.
Both use percentage points as units
(e.g., a value of 100 means an internal value of 1).

The garbage-collector pause
controls how long the collector waits before starting a new cycle.
Larger values make the collector less aggressive.
Values smaller than
100 mean the collector will not wait to
start a new cycle.
A value of 200 means that the collector waits for the total memory in use
to double before starting a new cycle.

The garbage-collector step multiplier
controls the relative speed of the collector relative to
memory allocation.
Larger values make the collector more aggressive but also increase
the size of each incremental step.
You should not use values smaller than 100,
because they make the collector too slow and
can result in the collector never finishing a cycle.
The default is 200,
which means that the collector runs at @Q{twice}
the speed of memory allocation.

If you set the step multiplier to a very large number
(larger than 10% of the maximum number of
bytes that the program may use),
the collector behaves like a stop-the-world collector.
If you then set the pause to 200,
the collector behaves as in old Lua versions,
doing a complete collection every time Lua doubles its
memory usage.

You can change these numbers
by calling @Lid{lua_gc} in C
or @Lid{collectgarbage} in Lua.
You can also use these functions to control
the collector directly (e.g., stop and restart it).

@sect3{finalizers| @title{Garbage-Collection Metamethods}

You can set garbage-collector metamethods for tables
and, using the @N{C API},
for full userdata @see{metatable}.
These metamethods are also called @def{finalizers}.
Finalizers allow you to coordinate Lua's garbage collection
with external resource management
(such as closing files, network or database connections,
or freeing your own memory).

For an object (table or userdata) to be finalized when collected,
you must @emph{mark} it for finalization.
@index{mark (for finalization)}
You mark an object for finalization when you set its metatable
and the metatable has a field indexed by the string @St{__gc}.
Note that if you set a metatable without a @idx{__gc} field
and later create that field in the metatable,
the object will not be marked for finalization.

When a marked
object becomes garbage,
it is not collected immediately by the garbage collector.
Instead, Lua puts it in a list.
After the collection,
Lua goes through that list.
For each object in the list,
it checks the object's @idx{__gc} metamethod:
If it is a function,
Lua calls it with the object as its single argument;
if the metamethod is not a function,
Lua simply ignores it.

At the end of each garbage-collection cycle,
the finalizers for objects are called in
the reverse order that the objects were marked for finalization,
among those collected in that cycle;
that is, the first finalizer to be called is the one associated
with the object marked last in the program.
The execution of each finalizer may occur at any point during
the execution of the regular code.

Because the object being collected must still be used by the finalizer,
that object (and other objects accessible only through it)
must be @emph{resurrected} by Lua.@index{resurrection}
Usually, this resurrection is transient,
and the
object memory is freed in the next garbage-collection cycle.
However, if the finalizer stores the object in some global place
(e.g., a global variable),

then the resurrection is permanent.
Moreover, if the finalizer marks a finalizing object for finalization again,
its finalizer will be called again in the next cycle where the
object is unreachable.
In any case,
the object memory is freed only in a GC cycle where
the object is unreachable and not marked for finalization.

When you close a state @seeF{lua_close},
Lua calls the finalizers of all objects marked for finalization,
following the reverse order that they were marked.
If any finalizer marks objects for collection during that phase,
these marks have no effect.

}

@sect3{weak-table| @title{Weak Tables}

A @def{weak table} is a table whose elements are
@def{weak references}.
A weak reference is ignored by the garbage collector.
In other words,
if the only references to an object are weak references,
then the garbage collector
will collect that object.

A weak table can have weak keys, weak values, or both.
A table with weak values allows the collection of its values,
but prevents the collection of its keys.
A table with both weak keys and weak values allows the collection of
both keys and values.
In any case, if either the key or the value is collected,
the whole pair is removed from the table.
The weakness of a table is controlled by the
@idx{__mode} field of its metatable.
If the @idx{__mode} field is a string containing the @N{character @Char{k}},
the keys in the table are weak.
If @idx{__mode} contains @Char{v},
the values in the table are weak.

A table with weak keys and strong values
is also called an @def{ephemeron table}.
In an ephemeron table,
a value is considered reachable only if its key is reachable.
In particular,
if the only reference to a key comes through its value,
the pair is removed.

Any change in the weakness of a table may take effect only
at the next collect cycle.
In particular, if
you change the weakness to a stronger mode,
Lua may still collect some items from that table
before the change takes effect.

Only objects that have an explicit construction
are removed from weak tables.
Values, such as numbers and @x{light @N{C functions}},
are not subject to garbage collection,
and therefore are not removed from weak tables
(unless their associated values are collected).
Although strings are subject to garbage collection,
they do not have an explicit construction,
and therefore are not removed from weak tables.

Resurrected objects
(that is, objects being finalized
and objects accessible only through objects being finalized)
have a special behavior in weak tables.
They are removed from weak values before running their finalizers,
but are removed from weak keys only in the next collection
after running their finalizers, when such objects are actually freed.
This behavior allows the finalizer to access properties
associated with the object through weak tables.

If a weak
table is among the resurrected objects in a collection cycle,
it may not be properly cleared until the next cycle.

}

}

@sect2{coroutine| @title{Coroutines}

Lua supports coroutines,
also called @emphx{collaborative multithreading}.
A coroutine in Lua represents an independent thread of execution.
Unlike threads in multithread systems, however,
a coroutine only suspends its execution by explicitly calling
a yield function.

You create a coroutine by calling @Lid{coroutine.create}.
Its sole argument is a function
that is the main function of the coroutine.
The @id{create} function only creates a new coroutine and

returns a handle to it (an object of type @emph{thread});
it does not start the coroutine.

You execute a coroutine by calling @Lid{coroutine.resume}.
When you first call @Lid{coroutine.resume},
passing as its first argument
a thread returned by @Lid{coroutine.create},
the coroutine starts its execution by
calling its main function.
Extra arguments passed to @Lid{coroutine.resume}
are passed
as arguments to that function.
After the coroutine starts running,
it runs until it terminates or @emph{yields}.

A coroutine can terminate its execution in two ways:
normally, when its main function returns
(explicitly or implicitly, after the last instruction);
and abnormally, if there is an unprotected error.
In case of normal termination,
@Lid{coroutine.resume} returns @true,
plus any values returned by the coroutine main function.
In case of errors, @Lid{coroutine.resume} returns @false
plus an error object.

A coroutine yields by calling @Lid{coroutine.yield}.
When a coroutine yields,
the corresponding @Lid{coroutine.resume} returns immediately,
even if the yield happens inside nested function calls
(that is, not in the main function,
but in a function directly or indirectly called by the main function).
In the case of a yield, @Lid{coroutine.resume} also returns @true,
plus any values passed to @Lid{coroutine.yield}.
The next time you resume the same coroutine,
it
continues its execution from the point where it yielded,
with the call to @Lid{coroutine.yield} returning any extra
arguments passed to @Lid{coroutine.resume}.

Like @Lid{coroutine.create},
the @Lid{coroutine.wrap} function also creates a coroutine,
but instead of returning the coroutine itself,
it returns a function that, when called, resumes the coroutine.
Any arguments passed to this function
go as extra arguments to @Lid{coroutine.resume}.
@Lid{coroutine.wrap} returns all the values returned by @Lid{coroutine.resume},
except the first one (the boolean error code).
Unlike @Lid{coroutine.resume},

@Lid{coroutine.wrap} does not catch errors;
any error is propagated to the caller.

As an example of how coroutines work,
consider the following code:
@verbatim{
function foo (a)
 print("foo", a)
 return coroutine.yield(2*a)
end

co = coroutine.create(function (a,b)
    print("co-body", a, b)
    local r = foo(a+1)
    print("co-body", r)
    local r, s = coroutine.yield(a+b,
 a-b)
    print("co-body", r, s)
    return b, "end"
end)

print("main", coroutine.resume(co, 1, 10))
print("main", coroutine.resume(co, "r"))
print("main", coroutine.resume(co, "x", "y"))
print("main", coroutine.resume(co, "x", "y"))
}
When you run it, it produces the following output:
@verbatim{
co-body 1   10
foo   2
main   true   4
co-body r
main   true   11   -9
co-body x   y
main   true   10   end
main   false   cannot resume dead coroutine
}

You can also create and manipulate coroutines through the C API:
see functions @Lid{lua_newthread}, @Lid{lua_resume},
and @Lid{lua_yield}.

}

}

@C{--}

@sect1{language| @title{The Language}

This section describes the lexis, the syntax, and the semantics of Lua.
In other words,
this section describes
which tokens are valid,
how they can be combined,
and what their combinations mean.

Language constructs will be explained using the usual extended
 BNF notation,
in which
@N{@bnfrep{@rep{a}} means 0} or more @rep{a}'s, and
@N{@bnfopt{@rep{a}} means} an optional @rep{a}.
Non-terminals are shown like @bnfNter{non-terminal},
keywords are shown like @rw{kword},
and other terminal symbols are shown like @bnfter{=}.
The complete syntax of Lua can be found in @refsec{BNF}
at the end of this manual.

@sect2{lexical| @title{Lexical Conventions}

Lua is a @x{free-form} language.
It ignores spaces (including new lines) and comments
between lexical elements (@x{tokens}),
except as delimiters between @x{names} and @x{keywords}.

@def{Names}
(also called @def{identifiers})
in Lua can be any string of letters,
digits, and underscores,
not beginning with a digit and
not being a reserved word.
Identifiers are used to name variables, table fields, and labels.

The following @def{keywords} are reserved
and cannot be used as names:
@index{reserved words}
@verbatim{
and   break   do   else   elseif   end
false   for   function
  goto   if   in
local   nil   not   or   repeat   return
then   true   until   while
}

Lua is a case-sensitive language:
@id{and} is a reserved word, but @id{And} and @id{AND}

are two different, valid names.
As a convention,
programs should avoid creating
names that start with an underscore followed by
one or more uppercase letters (such as @Lid{_VERSION}).

The following strings denote other @x{tokens}:
@verbatim{
+ - * / % ^ #
& ~ | << >> //
== ~= <= >= < > =
( ) { } [ ] ::
; : , ...
}

A @def{short literal string}
can be delimited by matching single or double quotes,
and can contain the following C-like escape sequences:
@Char{\a} (bell),
@Char{\b} (backspace),
@Char{\f} (form feed),
@Char{\n} (newline),
@Char{\r} (carriage return),
@Char{\t} (horizontal tab),
@Char{\v} (vertical tab),
@Char{\\} (backslash),
@Char{\"} (quotation mark [double
quote]),
and @Char{\'} (apostrophe [single quote]).
A backslash followed by a line break
results in a newline in the string.
The escape sequence @Char{\z} skips the following span
of white-space characters,
including line breaks;
it is particularly useful to break and indent a long literal string
into multiple lines without adding the newlines and spaces
into the string contents.
A short literal string cannot contain unescaped line breaks
nor escapes not forming a valid escape sequence.

We can specify any byte in a short literal string by its numeric value
(including @x{embedded zeros}).
This can be done
with the escape sequence @T{\x@rep{XX}},
where @rep{XX} is a sequence of exactly two hexadecimal digits,
or with the escape sequence @T{\@rep{ddd}},
where @rep{ddd} is a sequence of up to three decimal digits.
(Note that if a decimal escape sequence is to be followed by a digit,

it must be expressed using exactly three digits.)

The @x{UTF-8} encoding of a @x{Unicode} character
can
 be inserted in a literal string with
the escape sequence @T{\u{@rep{XXX}}}
(note the mandatory enclosing brackets),
where @rep{XXX} is a sequence of one or more hexadecimal digits
representing the character code point.

Literal strings can also be defined using a long format
enclosed by @def{long brackets}.
We define an @def{opening long bracket of level @rep{n}} as an opening
square bracket followed by @rep{n} equal signs followed by another
opening square bracket.
So, an opening long bracket of @N{level 0} is written as @T{[[}, @C{]]}
an opening long bracket of @N{level 1} is written as @T{[=[}, @C{]]}
and so on.
A @emph{closing long bracket} is defined similarly;
for instance,
a closing long bracket of @N{level 4} is written as @C{]]} @T{]====]}.
A @def{long literal} starts with an opening long bracket of any level and
ends at the first closing long bracket of the same level.
It can contain any text except a closing bracket of the same level.
Literals in this bracketed form can run
 for several lines,
do not interpret any escape sequences,
and ignore long brackets of any other level.
Any kind of end-of-line sequence
(carriage return, newline, carriage return followed by newline,
or newline followed by carriage return)
is converted to a simple newline.

For convenience,
when the opening long bracket is immediately followed by a newline,
the newline is not included in the string.
As an example, in a system using ASCII
(in which @Char{a} is coded @N{as 97},
newline is coded @N{as 10}, and @Char{1} is coded @N{as 49}),
the five literal strings below denote the same string:
@verbatim{
a = 'alo\n123"'
a = "alo\n123\""
a = '\97lo\10\04923"'
a = [[alo
123"]]
a = [==[
alo

123"]==]
}

Any byte in a literal string not
explicitly affected by the previous rules represents itself.
However, Lua opens files for parsing in text mode,
and the system file functions may have problems with
some control characters.
So, it is safer to represent
non-text data as a quoted literal with
explicit
 escape sequences for the non-text characters.

A @def{numeric constant} (or @def{numeral})
can be written with an optional fractional part
and an optional decimal exponent,
marked by a letter @Char{e} or @Char{E}.
Lua also accepts @x{hexadecimal constants},
which start with @T{0x} or @T{0X}.
Hexadecimal constants also accept an optional fractional part
plus an optional binary exponent,
marked by a letter @Char{p} or @Char{P}.
A numeric constant with a radix point or an exponent
denotes a float;
otherwise,
if its value fits in an integer,
it denotes an integer.
Examples of valid integer constants are
@verbatim{
3   345   0xff   0xBEBADA
}
Examples of valid float constants are
@verbatim{
3.0   3.1416   314.16e-2   0.31416E1   34e1
0x0.1E 0xA23p-4   0X1.921FB54442D18P+1
}

A @def{comment} starts with a double hyphen (@T{--})
anywhere outside a string.
If the text immediately after @T{--} is not an opening long bracket,
the comment is a @def{short comment},
which runs until
 the end of the line.
Otherwise, it is a @def{long comment},
which runs until the corresponding closing long bracket.
Long comments are frequently used to disable code temporarily.

}

@sect2{variables| @title{Variables}

Variables are places that store values.
There are three kinds of variables in Lua:
global variables, local variables, and table fields.

A single name can denote a global variable or a local variable
(or a function's formal parameter,
which is a particular kind of local variable):
@Produc{
@producname{var}@producbody{@bnfNter{Name}}
}
@bnfNter{Name} denotes identifiers, as defined in @See{lexical}.

Any variable name is assumed to be global unless explicitly declared
as a local @see{localvar}.
@x{Local variables} are @emph{lexically scoped}:
local variables can be freely accessed by functions
defined inside their scope @see{visibility}.

Before the first assignment to a variable, its value is @nil.

Square brackets are used to index a table:
@Produc{
@producname{var}@producbody{prefixexp
 @bnfter{[} exp @bnfter{]}}
}
The meaning of accesses to table fields can be changed via metatables
@see{metatable}.

The syntax @id{var.Name} is just syntactic sugar for
@T{var["Name"]}:
@Produc{
@producname{var}@producbody{prefixexp @bnfter{.} @bnfNter{Name}}
}

An access to a global variable @id{x}
is equivalent to @id{_ENV.x}.
Due to the way that chunks are compiled,
@id{_ENV} is never a global name @see{globalenv}.

}

@sect2{stats| @title{Statements}

Lua supports an almost conventional set of @x{statements},
similar to those in Pascal or C.

This set includes
assignments, control structures, function calls,
and variable declarations.

@sect3{@title{Blocks}

A @x{block} is a list of statements,
which are executed sequentially:
@Produc{
@producname{block}@producbody{@bnfrep{stat}}
}
Lua has @def{empty statements}
that allow you to separate statements with semicolons,
start a block with a semicolon
or write two semicolons in sequence:
@Produc{
@producname{stat}@producbody{@bnfter{;}}
}

Function
 calls and assignments
can start with an open parenthesis.
This possibility leads to an ambiguity in Lua's grammar.
Consider the following fragment:
@verbatim{
a = b + c
(print or io.write)('done')
}
The grammar could see it in two ways:
@verbatim{
a = b + c(print or io.write)('done')

a = b + c; (print or io.write)('done')
}
The current parser always sees such constructions
in the first way,
interpreting the open parenthesis
as the start of the arguments to a call.
To avoid this ambiguity,
it is a good practice to always precede with a semicolon
statements that start with a parenthesis:
@verbatim{
;(print or io.write)('done')
}

A block can be explicitly delimited to produce a single statement:
@Produc{
@producname{stat}@producbody{@Rw{do} block @Rw{end}}

}
Explicit blocks are useful
to control the scope of variable declarations.
Explicit blocks are also sometimes used to
add a @Rw{return} statement in the middle
of another block @see{control}.

}

@sect3{chunks|
 @title{Chunks}

The unit of compilation of Lua is called a @def{chunk}.
Syntactically,
a chunk is simply a block:
@Produc{
@producname{chunk}@producbody{block}
}

Lua handles a chunk as the body of an anonymous function
with a variable number of arguments
@see{func-def}.
As such, chunks can define local variables,
receive arguments, and return values.
Moreover, such anonymous function is compiled as in the
scope of an external local variable called @id{_ENV} @see{globalenv}.
The resulting function always has @id{_ENV} as its only upvalue,
even if it does not use that variable.

A chunk can be stored in a file or in a string inside the host program.
To execute a chunk,
Lua first @emph{loads} it,
precompiling the chunk's code into instructions for a virtual machine,
and then Lua executes the compiled code
with an interpreter for the virtual machine.

Chunks can also be precompiled into binary form;
see program @idx{luac} and function @Lid{string.dump} for details.
Programs in
 source and compiled forms are interchangeable;
Lua automatically detects the file type and acts accordingly @seeF{load}.

}

@sect3{assignment| @title{Assignment}

Lua allows @x{multiple assignments}.
Therefore, the syntax for assignment

defines a list of variables on the left side
and a list of expressions on the right side.
The elements in both lists are separated by commas:
@Produc{
@producname{stat}@producbody{varlist @bnfter{=} explist}
@producname{varlist}@producbody{var @bnfrep{@bnfter{,} var}}
@producname{explist}@producbody{exp @bnfrep{@bnfter{,} exp}}
}
Expressions are discussed in @See{expressions}.

Before the assignment,
the list of values is @emph{adjusted} to the length of
the list of variables.@index{adjustment}
If there are more values than needed,
the excess values are thrown away.
If there are fewer values than needed,
the list is extended with as many @nil's as needed.
If the list of expressions ends with a function call,
then all values returned by that call enter
 the list of values,
before the adjustment
(except when the call is enclosed in parentheses; see @See{expressions}).

The assignment statement first evaluates all its expressions
and only then the assignments are performed.
Thus the code
@verbatim{
i = 3
i, a[i] = i+1, 20
}
sets @T{a[3]} to 20, without affecting @T{a[4]}
because the @id{i} in @T{a[i]} is evaluated (to 3)
before it is @N{assigned 4}.
Similarly, the line
@verbatim{
x, y = y, x
}
exchanges the values of @id{x} and @id{y},
and
@verbatim{
x, y, z = y, z, x
}
cyclically permutes the values of @id{x}, @id{y}, and @id{z}.

An assignment to a global name @T{x = val}
is equivalent to the assignment
@T{_ENV.x = val} @see{globalenv}.

The meaning of assignments to table fields and
global variables (which are actually table fields, too)
can be changed via metatables @see{metatable}.

}

@sect3{control| @title{Control Structures}
The control structures
@Rw{if}, @Rw{while}, and @Rw{repeat} have the usual meaning and
familiar syntax:
@index{while-do
 statement}
@index{repeat-until statement}
@index{if-then-else statement}
@Produc{
@producname{stat}@producbody{@Rw{while} exp @Rw{do} block @Rw{end}}
@producname{stat}@producbody{@Rw{repeat} block @Rw{until} exp}
@producname{stat}@producbody{@Rw{if} exp @Rw{then} block
 @bnfrep{@Rw{elseif} exp @Rw{then} block}
  @bnfopt{@Rw{else} block} @Rw{end}}
}
Lua also has a @Rw{for} statement, in two flavors @see{for}.

The @x{condition expression} of a
control structure can return any value.
Both @false and @nil are considered false.
All values different from @nil and @false are considered true
(in particular, the number 0 and the empty string are also true).

In the @Rw{repeat}@En@Rw{until} loop,
the inner block does not end at the @Rw{until} keyword,
but only after the condition.
So, the condition can refer to local variables
declared inside the loop block.

The @Rw{goto} statement transfers the program control to a label.
For syntactical reasons,
labels in Lua are considered
 statements too:
@index{goto statement}
@index{label}
@Produc{
@producname{stat}@producbody{@Rw{goto} Name}
@producname{stat}@producbody{label}
@producname{label}@producbody{@bnfter{::} Name @bnfter{::}}
}

A label is visible in the entire block where it is defined,

except
inside nested blocks where a label with the same name is defined and
inside nested functions.
A goto may jump to any visible label as long as it does not
enter into the scope of a local variable.

Labels and empty statements are called @def{void statements},
as they perform no actions.

The @Rw{break} statement terminates the execution of a
@Rw{while}, @Rw{repeat}, or @Rw{for} loop,
skipping to the next statement after the loop:
@index{break statement}
@Produc{
@producname{stat}@producbody{@Rw{break}}
}
A @Rw{break} ends the innermost enclosing loop.

The @Rw{return} statement is used to return values
from a function or a chunk
(which is an anonymous function).
@index{return statement}
Functions can return more than
one value,
so the syntax for the @Rw{return} statement is
@Produc{
@producname{stat}@producbody{@Rw{return} @bnfopt{explist} @bnfopt{@bnfter{;}}}
}

The @Rw{return} statement can only be written
as the last statement of a block.
If it is really necessary to @Rw{return} in the middle of a block,
then an explicit inner block can be used,
as in the idiom @T{do return end},
because now @Rw{return} is the last statement in its (inner) block.

}

@sect3{for| @title{For Statement}

@index{for statement}
The @Rw{for} statement has two forms:
one numerical and one generic.

The numerical @Rw{for} loop repeats a block of code while a
control variable runs through an arithmetic progression.
It has the following syntax:
@Produc{

@producname{stat}@producbody{@Rw{for} @bnfNter{Name} @bnfter{=}
 exp @bnfter{,} exp @bnfopt{@bnfter{,} exp} @Rw{do} block @Rw{end}}
}
The @emph{block} is repeated for @emph{name} starting at the value of
the first @emph{exp}, until it passes the second @emph{exp} by steps
 of the
third @emph{exp}.
More precisely, a @Rw{for} statement like
@verbatim{
for v = @rep{e1}, @rep{e2}, @rep{e3} do @rep{block} end
}
is equivalent to the code:
@verbatim{
do
 local @rep{var}, @rep{limit}, @rep{step} = tonumber(@rep{e1}), tonumber(@rep{e2}), tonumber(@rep{e3})
 if not (@rep{var} and @rep{limit} and @rep{step}) then error() end
 @rep{var} = @rep{var} - @rep{step}
 while true do
   @rep{var} = @rep{var} + @rep{step}
   if (@rep{step} >= 0 and @rep{var} > @rep{limit}) or (@rep{step} < 0 and @rep{var} < @rep{limit}) then
     break
   end
   local v = @rep{var}
   @rep{block}
 end
end
}

Note the following:
@itemize{

@item{
All three control expressions are evaluated only once,
before the loop starts.
They must all result in numbers.
}

@item{
@T{@rep{var}}, @T{@rep{limit}}, and @T{@rep{step}} are invisible variables.
The names shown here are for explanatory purposes only.
}

@item{
If the third expression (the step) is absent,
then a step @N{of 1} is used.
}

@item{

```
You
 can use @Rw{break} and @Rw{goto} to exit a @Rw{for} loop.
}

@item{
The loop variable @T{v} is local to the loop body.
If you need its value after the loop,
assign it to another variable before exiting the loop.
}

}

The generic @Rw{for} statement works over functions,
called @def{iterators}.
On each iteration, the iterator function is called to produce a new value,
stopping when this new value is @nil.
The generic @Rw{for} loop has the following syntax:
@Produc{
@producname{stat}@producbody{@Rw{for} namelist @Rw{in} explist
                @Rw{do} block @Rw{end}}
@producname{namelist}@producbody{@bnfNter{Name} @bnfrep{@bnfter{,} @bnfNter{Name}}}
}
A @Rw{for} statement like
@verbatim{
for @rep{var_1}, @Cdots, @rep{var_n} in @rep{explist} do @rep{block} end
}
is equivalent to the code:
@verbatim{
do
 local @rep{f}, @rep{s}, @rep{var} = @rep{explist}
 while true do
   local @rep{var_1}, @Cdots, @rep{var_n} = @rep{f}(@rep{s}, @rep{var})
   if @rep{var_1} == nil then
 break end
   @rep{var} = @rep{var_1}
   @rep{block}
 end
end
}
Note the following:
@itemize{

@item{
@T{@rep{explist}} is evaluated only once.
Its results are an @emph{iterator} function,
a @emph{state},
and an initial value for the first @emph{iterator variable}.
}
```

@item{
@T{@rep{f}}, @T{@rep{s}}, and @T{@rep{var}} are invisible variables.
The names are here for explanatory purposes only.
}

@item{
You can use @Rw{break} to exit a @Rw{for} loop.
}

@item{
The loop variables @T{@rep{var_i}} are local to the loop;
you cannot use their values after the @Rw{for} ends.
If you need these values,
then assign them to other variables before breaking or exiting the loop.
}

}

}

@sect3{funcstat| @title{Function Calls as Statements}
To allow possible side-effects,
function calls can be executed as statements:
@Produc{
@producname{stat}@producbody{functioncall}
}
In this case, all returned values are thrown away.
Function calls are explained in @See{functioncall}.

}

@sect3{localvar| @title{Local
 Declarations}
@x{Local variables} can be declared anywhere inside a block.
The declaration can include an initial assignment:
@Produc{
@producname{stat}@producbody{@Rw{local} namelist @bnfopt{@bnfter{=} explist}}
}
If present, an initial assignment has the same semantics
of a multiple assignment @see{assignment}.
Otherwise, all variables are initialized with @nil.

A chunk is also a block @see{chunks},
and so local variables can be declared in a chunk outside any explicit block.

The visibility rules for local variables are explained in @See{visibility}.

```
}

}

@sect2{expressions| @title{Expressions}

The basic expressions in Lua are the following:
@Produc{
@producname{exp}@producbody{prefixexp}
@producname{exp}@producbody{@Rw{nil} @Or @Rw{false} @Or @Rw{true}}
@producname{exp}@producbody{@bnfNter{Numeral}}
@producname{exp}@producbody{@bnfNter{LiteralString}}
@producname{exp}@producbody{functiondef}
@producname{exp}@producbody{tableconstructor}
@producname{exp}@producbody{@bnfter{...}}
@producname{exp}@producbody{exp
 binop exp}
@producname{exp}@producbody{unop exp}
@producname{prefixexp}@producbody{var @Or functioncall @Or
                        @bnfter{(} exp @bnfter{)}}
}

Numerals and literal strings are explained in @See{lexical};
variables are explained in @See{variables};
function definitions are explained in @See{func-def};
function calls are explained in @See{functioncall};
table constructors are explained in @See{tableconstructor}.
Vararg expressions,
denoted by three dots (@Char{...}), can only be used when
directly inside a vararg function;
they are explained in @See{func-def}.

Binary operators comprise arithmetic operators @see{arith},
bitwise operators @see{bitwise},
relational operators @see{rel-ops}, logical operators @see{logic},
and the concatenation operator @see{concat}.
Unary operators comprise the unary minus @see{arith},
the unary bitwise NOT @see{bitwise},
the unary logical @Rw{not} @see{logic},
and the unary @def{length operator}
 @see{len-op}.

Both function calls and vararg expressions can result in multiple values.
If a function call is used as a statement @see{funcstat},
then its return list is adjusted to zero elements,
thus discarding all returned values.
If an expression is used as the last (or the only) element
of a list of expressions,
```

then no adjustment is made
(unless the expression is enclosed in parentheses).
In all other contexts,
Lua adjusts the result list to one element,
either discarding all values except the first one
or adding a single @nil if there are no values.

Here are some examples:
@verbatim{
f()   -- adjusted to 0 results
g(f(), x)   -- f() is adjusted to 1 result
g(x, f())   -- g gets x plus all results from f()
a,b,c = f(), x   -- f() is adjusted to 1 result (c gets nil)
a,b = ...   -- a gets the first vararg argument, b gets
                   -- the second (both a and b can get nil if there
                   -- is no corresponding vararg
 argument)

a,b,c = x, f()   -- f() is adjusted to 2 results
a,b,c = f()   -- f() is adjusted to 3 results
return f()   -- returns all results from f()
return ...   -- returns all received vararg arguments
return x,y,f()   -- returns x, y, and all results from f()
{f()}   -- creates a list with all results from f()
{...}   -- creates a list with all vararg arguments
{f(), nil}   -- f() is adjusted to 1 result
}

Any expression enclosed in parentheses always results in only one value.
Thus,
@T{(f(x,y,z))} is always a single value,
even if @id{f} returns several values.
(The value of @T{(f(x,y,z))} is the first value returned by @id{f}
or @nil if @id{f} does not return any values.)

@sect3{arith| @title{Arithmetic Operators}
Lua supports the following @x{arithmetic operators}:
@description{
@item{@T{+}|addition}
@item{@T{-}|subtraction}
@item{@T{*}|multiplication}
@item{@T{/}|float division}
@item{@T{//}|floor division}
@item{@T{%}|modulo}
@item{@T{^}|exponentiation}
@item{@T{-}|unary

minus}
}

With the exception of exponentiation and float division,
the arithmetic operators work as follows:
If both operands are integers,
the operation is performed over integers and the result is an integer.
Otherwise, if both operands are numbers
or strings that can be converted to
numbers @see{coercion},
then they are converted to floats,
the operation is performed following the usual rules
for floating-point arithmetic
(usually the @x{IEEE 754} standard),
and the result is a float.

Exponentiation and float division (@T{/})
always convert their operands to floats
and the result is always a float.
Exponentiation uses the @ANSI{pow},
so that it works for non-integer exponents too.

Floor division (@T{//}) is a division
that rounds the quotient towards minus infinity,
that is, the floor of the division of its operands.

Modulo is defined as the remainder of a division
that rounds the quotient towards minus infinity (floor division).

In
case of overflows in integer arithmetic,
all operations @emphx{wrap around},
according to the usual rules of two-complement arithmetic.
(In other words,
they return the unique representable integer
that is equal modulo @M{2@sp{64}} to the mathematical result.)
}

@sect3{bitwise| @title{Bitwise Operators}
Lua supports the following @x{bitwise operators}:
@description{
@item{@T{&}|bitwise AND}
@item{@T{@VerBar}|bitwise OR}
@item{@T{~}|bitwise exclusive OR}
@item{@T{>>}|right shift}
@item{@T{<<}|left shift}
@item{@T{~}|unary bitwise NOT}
}

All bitwise operations convert its operands to integers
@see{coercion},
operate on all bits of those integers,
and result in an integer.

Both right and left shifts fill the vacant bits with zeros.
Negative displacements shift to the other direction;
displacements with absolute values equal to or higher than
the number of bits in an integer
result in zero (as all bits are shifted out).

}

@sect3{coercion| @title{Coercions and Conversions}
Lua provides
some automatic conversions between some
types and representations at run time.
Bitwise operators always convert float operands to integers.
Exponentiation and float division
always convert integer operands to floats.
All other arithmetic operations applied to mixed numbers
(integers and floats) convert the integer operand to a float;
this is called the @def{usual rule}.
The C API also converts both integers to floats and
floats to integers, as needed.
Moreover, string concatenation accepts numbers as arguments,
besides strings.

Lua also converts strings to numbers,
whenever a number is expected.

In a conversion from integer to float,
if the integer value has an exact representation as a float,
that is the result.
Otherwise,
the conversion gets the nearest higher or
the nearest lower representable value.
This kind of conversion never fails.

The conversion from float to integer
checks whether the float has an exact representation as an integer
(that is, the float has an integral
value and
it is in the range of integer representation).
If it does, that representation is the result.
Otherwise, the conversion fails.

The conversion from strings to numbers goes as follows:
First, the string is converted to an integer or a float,
following its syntax and the rules of the Lua lexer.
(The string may have also leading and trailing spaces and a sign.)
Then, the resulting number (float or integer)
is converted to the type (float or integer) required by the context
(e.g., the operation that forced the conversion).

All conversions from strings to numbers
accept both a dot and the current locale mark
as the radix character.
(The Lua lexer, however, accepts only a dot.)

The conversion from numbers to strings uses a
non-specified human-readable format.
For complete control over how numbers are converted to strings,
use the @id{format} function from the string library
@seeF{string.format}.

}

@sect3{rel-ops| @title{Relational Operators}
Lua supports the following @x{relational
operators}:
@description{
@item{@T{==}|equality}
@item{@T{~=}|inequality}
@item{@T{<}|less than}
@item{@T{>}|greater than}
@item{@T{<=}|less or equal}
@item{@T{>=}|greater or equal}
}
These operators always result in @false or @true.

Equality (@T{==}) first compares the type of its operands.
If the types are different, then the result is @false.
Otherwise, the values of the operands are compared.
Strings are compared in the obvious way.
Numbers are equal if they denote the same mathematical value.

Tables, userdata, and threads
are compared by reference:
two objects are considered equal only if they are the same object.
Every time you create a new object
(a table, userdata, or thread),
this new object is different from any previously existing object.
A closure is always equal to itself.
Closures with any detectable difference

(different behavior, different definition) are always different.
Closures created at different times but with no detectable differences
may be classified as
 equal or not
(depending on internal caching details).

You can change the way that Lua compares tables and userdata
by using the @Q{eq} metamethod @see{metatable}.

Equality comparisons do not convert strings to numbers
or vice versa.
Thus, @T{"0"==0} evaluates to @false,
and @T{t[0]} and @T{t["0"]} denote different
entries in a table.

The operator @T{~=} is exactly the negation of equality (@T{==}).

The order operators work as follows.
If both arguments are numbers,
then they are compared according to their mathematical values
(regardless of their subtypes).
Otherwise, if both arguments are strings,
then their values are compared according to the current locale.
Otherwise, Lua tries to call the @Q{lt} or the @Q{le}
metamethod @see{metatable}.
A comparison @T{a > b} is translated to @T{b < a}
and @T{a >= b} is translated to @T{b <= a}.

Following the @x{IEEE 754} standard,
@x{NaN} is considered neither smaller than,
nor equal to, nor greater than any value (including itself).

}

@sect3{logic|
 @title{Logical Operators}
The @x{logical operators} in Lua are
@Rw{and}, @Rw{or}, and @Rw{not}.
Like the control structures @see{control},
all logical operators consider both @false and @nil as false
and anything else as true.

The negation operator @Rw{not} always returns @false or @true.
The conjunction operator @Rw{and} returns its first argument
if this value is @false or @nil;
otherwise, @Rw{and} returns its second argument.
The disjunction operator @Rw{or} returns its first argument
if this value is different from @nil and @false;

otherwise, @Rw{or} returns its second argument.
Both @Rw{and} and @Rw{or} use @x{short-circuit evaluation};
that is,
the second operand is evaluated only if necessary.
Here are some examples:
@verbatim{
10 or 20   --> 10
10 or error()   --> 10
nil or "a"   --> "a"
nil and 10   --> nil
false and error()   --> false
false and nil   --> false
false or nil   --> nil
10 and 20   --> 20
}
(In this manual,
@T{-->}
indicates the result of the preceding expression.)

}

@sect3{concat| @title{Concatenation}
The string @x{concatenation} operator in Lua is
denoted by two dots (@Char{..}).
If both operands are strings or numbers, then they are converted to
strings according to the rules described in @See{coercion}.
Otherwise, the @idx{__concat} metamethod is called @see{metatable}.

}

@sect3{len-op| @title{The Length Operator}

The length operator is denoted by the unary prefix operator @T{#}.

The length of a string is its number of bytes
(that is, the usual meaning of string length when each
character is one byte).

The length operator applied on a table
returns a @x{border} in that table.
A @def{border} in a table @id{t} is any natural number
that satisfies the following condition:
@verbatim{
(border == 0 or t[border] ~= nil) and t[border + 1] == nil
}
In words,
a border is any (natural) index in a table
where a non-nil value is followed by a nil value

(or zero, when index 1 is nil).

A
table with exactly one border is called a @def{sequence}.
For instance, the table @T{{10, 20, 30, 40, 50}} is a sequence,
as it has only one border (5).
The table @T{{10, 20, 30, nil, 50}} has two borders (3 and 5),
and therefore it is not a sequence.
The table @T{{nil, 20, 30, nil, nil, 60, nil}}
has three borders (0, 3, and 6),
so it is not a sequence, too.
The table @T{{}} is a sequence with border 0.
Note that non-natural keys do not interfere
with whether a table is a sequence.

When @id{t} is a sequence,
@T{#t} returns its only border,
which corresponds to the intuitive notion of the length of the sequence.
When @id{t} is not a sequence,
@T{#t} can return any of its borders.
(The exact one depends on details of
the internal representation of the table,
which in turn can depend on how the table was populated and
the memory addresses of its non-numeric keys.)

The computation of the length of a table
has a guaranteed worst time of @M{O(log n)},
where @M{n} is the largest natural key
in the table.

A program can modify the behavior of the length operator for
any value but strings through the @idx{__len} metamethod @see{metatable}.

}

@sect3{prec| @title{Precedence}
@x{Operator precedence} in Lua follows the table below,
from lower to higher priority:
@verbatim{
or
and
< > <= >= ~= ==
|
~
&
<< >>
..
+ -

* / // %
unary operators (not # - ~)
^
}
As usual,
you can use parentheses to change the precedences of an expression.
The concatenation (@Char{..}) and exponentiation (@Char{^})
operators are right associative.
All other binary operators are left associative.

}

@sect3{tableconstructor| @title{Table Constructors}
Table @x{constructors} are expressions that create tables.
Every time a constructor is evaluated, a new table is created.
A constructor can be used to create an empty table
or to create a table and initialize some of its fields.
The general syntax for constructors is
@Produc{
@producname{tableconstructor}@producbody{@bnfter{@Open}
@bnfopt{fieldlist} @bnfter{@Close}}
@producname{fieldlist}@producbody{field @bnfrep{fieldsep field} @bnfopt{fieldsep}}
@producname{field}@producbody{@bnfter{[} exp @bnfter{]} @bnfter{=} exp @Or
@bnfNter{Name} @bnfter{=} exp @Or exp}
@producname{fieldsep}@producbody{@bnfter{,} @Or @bnfter{;}}
}

Each field of the form @T{[exp1] = exp2} adds to the new table an entry
with key @id{exp1} and value @id{exp2}.
A field of the form @T{name = exp} is equivalent to
@T{["name"] = exp}.
Finally, fields of the form @id{exp} are equivalent to
@T{[i] = exp}, where @id{i} are consecutive integers
starting with 1.
Fields in the other formats do not affect this counting.
For example,
@verbatim{
a = { [f(1)] = g; "x", "y"; x = 1, f(x), [30] = 23; 45 }
}
is equivalent to
@verbatim{
do
 local t = {}
 t[f(1)] = g
 t[1] = "x" -- 1st exp
 t[2] = "y" -- 2nd exp
 t.x = 1 -- t["x"] = 1
 t[3] = f(x) -- 3rd exp

```
 t[30] = 23
 t[4] = 45
        -- 4th exp
 a = t
end
}
```

The order of the assignments in a constructor is undefined.
(This order would be relevant only when there are repeated keys.)

If the last field in the list has the form @id{exp}
and the expression is a function call or a vararg expression,
then all values returned by this expression enter the list consecutively
@see{functioncall}.

The field list can have an optional trailing separator,
as a convenience for machine-generated code.

}

@sect3{functioncall| @title{Function Calls}
A @x{function call} in Lua has the following syntax:
@Produc{
@producname{functioncall}@producbody{prefixexp args}
}
In a function call,
first @bnfNter{prefixexp} and @bnfNter{args} are evaluated.
If the value of @bnfNter{prefixexp} has type @emph{function},
then this function is called
with the given arguments.
Otherwise, the @bnfNter{prefixexp} @Q{call} metamethod is called,
having as first argument the value of @bnfNter{prefixexp},
followed by the original call arguments
@see{metatable}.

The
 form
@Produc{
@producname{functioncall}@producbody{prefixexp @bnfter{:} @bnfNter{Name} args}
}
can be used to call @Q{methods}.
A call @T{v:name(@rep{args})}
is syntactic sugar for @T{v.name(v,@rep{args})},
except that @id{v} is evaluated only once.

Arguments have the following syntax:
@Produc{
@producname{args}@producbody{@bnfter{(} @bnfopt{explist} @bnfter{)}}

@producname{args}@producbody{tableconstructor}
@producname{args}@producbody{@bnfNter{LiteralString}}
}
All argument expressions are evaluated before the call.
A call of the form @T{f{@rep{fields}}} is
syntactic sugar for @T{f({@rep{fields}})};
that is, the argument list is a single new table.
A call of the form @T{f'@rep{string}'}
(or @T{f"@rep{string}"} or @T{f[[@rep{string}]]})
is syntactic sugar for @T{f('@rep{string}')};
that is, the argument list is a single literal string.

A call of the form @T{return @rep{functioncall}} is called
a @def{tail call}.
Lua implements @def{proper tail calls}
(or @emph{proper
 tail recursion}):
in a tail call,
the called function reuses the stack entry of the calling function.
Therefore, there is no limit on the number of nested tail calls that
a program can execute.
However, a tail call erases any debug information about the
calling function.
Note that a tail call only happens with a particular syntax,
where the @Rw{return} has one single function call as argument;
this syntax makes the calling function return exactly
the returns of the called function.
So, none of the following examples are tail calls:
@verbatim{
return (f(x))   -- results adjusted to 1
return 2 * f(x)
return x, f(x)   -- additional results
f(x); return   -- results discarded
return x or f(x)   -- results adjusted to 1
}

}

@sect3{func-def| @title{Function Definitions}

The syntax for function definition is
@Produc{
@producname{functiondef}@producbody{@Rw{function} funcbody}
@producname{funcbody}@producbody{@bnfter{(} @bnfopt{parlist} @bnfter{)} block @Rw{end}}
}

The

following syntactic sugar simplifies function definitions:
@Produc{
@producname{stat}@producbody{@Rw{function} funcname funcbody}
@producname{stat}@producbody{@Rw{local} @Rw{function} @bnfNter{Name} funcbody}
@producname{funcname}@producbody{@bnfNter{Name} @bnfrep{@bnfter{.} @bnfNter{Name}}
@bnfopt{@bnfter{:} @bnfNter{Name}}}
}
The statement
@verbatim{
function f () @rep{body} end
}
translates to
@verbatim{
f = function () @rep{body} end
}
The statement
@verbatim{
function t.a.b.c.f () @rep{body} end
}
translates to
@verbatim{
t.a.b.c.f = function () @rep{body} end
}
The statement
@verbatim{
local function f () @rep{body} end
}
translates to
@verbatim{
local f; f = function () @rep{body} end
}
not to
@verbatim{
local f = function () @rep{body} end
}
(This only makes a difference when the body of the function
contains references to @id{f}.)

A function definition is an executable expression,
whose value has type @emph{function}.
When Lua precompiles a chunk,
all its function bodies are
precompiled too.
Then, whenever Lua executes the function definition,
the function is @emph{instantiated} (or @emph{closed}).
This function instance (or @emphx{closure})
is the final value of the expression.

Parameters act as local variables that are
initialized with the argument values:
@Produc{
@producname{parlist}@producbody{namelist @bnfopt{@bnfter{,} @bnfter{...}} @Or
@bnfter{...}}
}
When a function is called,
the list of @x{arguments} is adjusted to
the length of the list of parameters,
unless the function is a @def{vararg function},
which is indicated by three dots (@Char{...})
at the end of its parameter list.
A vararg function does not adjust its argument list;
instead, it collects all extra arguments and supplies them
to the function through a @def{vararg expression},
which is also written as three dots.
The value of this expression is a list of all actual extra arguments,
similar to a function with multiple results.
If a vararg expression is used inside another expression
or
in the middle of a list of expressions,
then its return list is adjusted to one element.
If the expression is used as the last element of a list of expressions,
then no adjustment is made
(unless that last expression is enclosed in parentheses).

As an example, consider the following definitions:
@verbatim{
function f(a, b) end
function g(a, b, ...) end
function r() return 1,2,3 end
}
Then, we have the following mapping from arguments to parameters and
to the vararg expression:
@verbatim{
CALL PARAMETERS

f(3) a=3, b=nil
f(3, 4) a=3, b=4
f(3, 4, 5) a=3, b=4
f(r(), 10) a=1, b=10
f(r()) a=1, b=2

g(3) a=3, b=nil, ... --> (nothing)
g(3, 4) a=3, b=4, ... --> (nothing)
g(3, 4, 5, 8) a=3, b=4, ... --> 5 8
g(5, r()) a=5, b=1, ... --> 2 3

}

Results are returned using the @Rw{return} statement @see{control}.
If control reaches the end of a function
without encountering a @Rw{return} statement,
then
the function returns with no results.

@index{multiple return}
There is a system-dependent limit on the number of values
that a function may return.
This limit is guaranteed to be larger than 1000.

The @emphx{colon} syntax
is used for defining @def{methods},
that is, functions that have an implicit extra parameter @idx{self}.
Thus, the statement
@verbatim{
function t.a.b.c:f (@rep{params}) @rep{body} end
}
is syntactic sugar for
@verbatim{
t.a.b.c.f = function (self, @rep{params}) @rep{body} end
}

}

}

@sect2{visibility| @title{Visibility Rules}

@index{visibility}
Lua is a lexically scoped language.
The scope of a local variable begins at the first statement after
its declaration and lasts until the last non-void statement
of the innermost block that includes the declaration.
Consider the following example:
@verbatim{
```
x = 10                -- global variable
do                    -- new block
 local x = x          -- new 'x', with value 10
 print(x)             --> 10
 x =
 x+1
 do                   -- another block
   local x = x+1      -- another 'x'
   print(x)           --> 12
 end
```

```
 print(x)          --> 11
end
print(x)           --> 10  (the global one)
}
```

Notice that, in a declaration like @T{local x = x},
the new @id{x} being declared is not in scope yet,
and so the second @id{x} refers to the outside variable.

Because of the @x{lexical scoping} rules,
local variables can be freely accessed by functions
defined inside their scope.
A local variable used by an inner function is called
an @def{upvalue}, or @emphx{external local variable},
inside the inner function.

Notice that each execution of a @Rw{local} statement
defines new local variables.
Consider the following example:

```
@verbatim{
a = {}
local x = 20
for i=1,10 do
 local y = 0
 a[i] = function () y=y+1; return x+y end
end
}
```

The loop creates ten closures
(that is, ten instances of the anonymous function).
Each of these closures uses a different @id{y} variable,
while all of them share
 the same @id{x}.

}

}

```
@C{-----------------------------------------------------------------------}
```

@sect1{API| @title{The Application Program Interface}

@index{C API}
This section describes the @N{C API} for Lua, that is,
the set of @N{C functions} available to the host program to communicate
with Lua.
All API functions and related types and constants
are declared in the header file @defid{lua.h}.

Even when we use the term @Q{function},
any facility in the API may be provided as a macro instead.
Except where stated otherwise,
all such macros use each of their arguments exactly once
(except for the first argument, which is always a Lua state),
and so do not generate any hidden side-effects.

As in most @N{C libraries},
the Lua API functions do not check their arguments for validity or consistency.
However, you can change this behavior by compiling Lua
with the macro @defid{LUA_USE_APICHECK} defined.

The Lua library is fully reentrant:
it has no global variables.
It keeps all information
it needs in a dynamic structure,
called the @def{Lua state}.

Each Lua state has one or more threads,
which correspond to independent, cooperative lines of execution.
The type @Lid{lua_State} (despite its name) refers to a thread.
(Indirectly, through the thread, it also refers to the
Lua state associated to the thread.)

A pointer to a thread must be passed as the first argument to
every function in the library, except to @Lid{lua_newstate},
which creates a Lua state from scratch and returns a pointer
to the @emph{main thread} in the new state.

@sect2{@title{The Stack}

Lua uses a @emph{virtual stack} to pass values to and from C.
Each element in this stack represents a Lua value
(@nil, number, string, etc.).
Functions in the API can access this stack through the
Lua state parameter that they receive.

Whenever Lua calls C, the called function gets a new stack,
which is independent of previous stacks and of stacks of
@N{C functions} that are still active.
This stack initially
contains any arguments to the @N{C function}
and it is where the @N{C function} can store temporary
Lua values and must push its results
to be returned to the caller @seeC{lua_CFunction}.

For convenience,

most query operations in the API do not follow a strict stack discipline.
Instead, they can refer to any element in the stack
by using an @emph{index}:@index{index (API stack)}
A positive index represents an absolute stack position
(starting @N{at 1});
a negative index represents an offset relative to the top of the stack.
More specifically, if the stack has @rep{n} elements,
then @N{index 1} represents the first element
(that is, the element that was pushed onto the stack first)
and
@N{index @rep{n}} represents the last element;
@N{index @num{-1}} also represents the last element
(that is, the element at @N{the top})
and index @M{-n} represents the first element.

}

@sect2{stacksize| @title{Stack Size}

When you interact with the Lua API,
you are responsible for ensuring consistency.
In
particular,
@emph{you are responsible for controlling stack overflow}.
You can use the function @Lid{lua_checkstack}
to ensure that the stack has enough space for pushing new elements.

Whenever Lua calls C,
it ensures that the stack has space for
at least @defid{LUA_MINSTACK} extra slots.
@id{LUA_MINSTACK} is defined as 20,
so that usually you do not have to worry about stack space
unless your code has loops pushing elements onto the stack.

When you call a Lua function
without a fixed number of results @seeF{lua_call},
Lua ensures that the stack has enough space for all results,
but it does not ensure any extra space.
So, before pushing anything in the stack after such a call
you should use @Lid{lua_checkstack}.

}

@sect2{@title{Valid and Acceptable Indices}

Any function in the API that receives stack indices
works only with @emphx{valid indices} or @emphx{acceptable indices}.

A @def{valid index} is an index that refers to a
position that stores a modifiable Lua value.
It
 comprises stack indices @N{between 1} and the stack top
(@T{1 @leq abs(index) @leq top})
@index{stack index}
plus @def{pseudo-indices},
which represent some positions that are accessible to @N{C code}
but that are not in the stack.
Pseudo-indices are used to access the registry @see{registry}
and the upvalues of a @N{C function} @see{c-closure}.

Functions that do not need a specific mutable position,
but only a value (e.g., query functions),
can be called with acceptable indices.
An @def{acceptable index} can be any valid index,
but it also can be any positive index after the stack top
within the space allocated for the stack,
that is, indices up to the stack size.
(Note that 0 is never an acceptable index.)
Except when noted otherwise,
functions in the API work with acceptable indices.

Acceptable indices serve to avoid extra tests
against the stack top when querying the stack.
For instance, a @N{C function} can query its third argument
without the need to first check whether there
 is a third argument,
that is, without the need to check whether 3 is a valid index.

For functions that can be called with acceptable indices,
any non-valid index is treated as if it
contains a value of a virtual type @defid{LUA_TNONE},
which behaves like a nil value.

}

@sect2{c-closure| @title{C Closures}

When a @N{C function} is created,
it is possible to associate some values with it,
thus creating a @def{@N{C closure}}
@seeC{lua_pushcclosure};
these values are called @def{upvalues} and are
accessible to the function whenever it is called.

Whenever a @N{C function} is called,
its upvalues are located at specific pseudo-indices.

These pseudo-indices are produced by the macro
@Lid{lua_upvalueindex}.
The first upvalue associated with a function is at index
@T{lua_upvalueindex(1)}, and so on.
Any access to @T{lua_upvalueindex(@rep{n})},
where @rep{n} is greater than the number of upvalues of the
current function
(but not greater than 256,
which is one plus the maximum number of upvalues
 in a closure),
produces an acceptable but invalid index.

}

@sect2{registry| @title{Registry}

Lua provides a @def{registry},
a predefined table that can be used by any @N{C code} to
store whatever Lua values it needs to store.
The registry table is always located at pseudo-index
@defid{LUA_REGISTRYINDEX}.
Any @N{C library} can store data into this table,
but it must take care to choose keys
that are different from those used
by other libraries, to avoid collisions.
Typically, you should use as key a string containing your library name,
or a light userdata with the address of a @N{C object} in your code,
or any Lua object created by your code.
As with variable names,
string keys starting with an underscore followed by
uppercase letters are reserved for Lua.

The integer keys in the registry are used
by the reference mechanism @seeC{luaL_ref}
and by some predefined values.
Therefore, integer keys must not be used for other purposes.

When you create a new Lua state,
its registry comes
 with some predefined values.
These predefined values are indexed with integer keys
defined as constants in @id{lua.h}.
The following constants are defined:
@description{
@item{@defid{LUA_RIDX_MAINTHREAD}| At this index the registry has
the main thread of the state.
(The main thread is the one created together with the state.)
}

@item{@defid{LUA_RIDX_GLOBALS}| At this index the registry has
the @x{global environment}.
}
}

}

@sect2{C-error|@title{Error Handling in C}

Internally, Lua uses the C @id{longjmp} facility to handle errors.
(Lua will use exceptions if you compile it as C++;
search for @id{LUAI_THROW} in the source code for details.)
When Lua faces any error
(such as a @x{memory allocation error} or a type error)
it @emph{raises} an error;
that is, it does a long jump.
A @emphx{protected environment} uses @id{setjmp}
to set a recovery point;
any error jumps to the most recent active recovery point.

Inside a @N{C function} you can raise an error by calling @Lid{lua_error}.

Most
functions in the API can raise an error,
for instance due to a @x{memory allocation error}.
The documentation for each function indicates whether
it can raise errors.

If an error happens outside any protected environment,
Lua calls a @def{panic function} (see @Lid{lua_atpanic})
and then calls @T{abort},
thus exiting the host application.
Your panic function can avoid this exit by
never returning
(e.g., doing a long jump to your own recovery point outside Lua).

The panic function,
as its name implies,
is a mechanism of last resort.
Programs should avoid it.
As a general rule,
when a @N{C function} is called by Lua with a Lua state,
it can do whatever it wants on that Lua state,
as it should be already protected.
However,
when C code operates on other Lua states
(e.g., a Lua argument to the function,

a Lua state stored in the registry, or
the result of @Lid{lua_newthread}),
it should use them only in API calls that cannot raise errors.

The panic function runs as if it were a
@x{message handler} @see{error};
in particular, the error object is at the top of the stack.
However, there is no guarantee about stack space.
To push anything on the stack,
the panic function must first check the available space @see{stacksize}.

}

@sect2{continuations|@title{Handling Yields in C}

Internally, Lua uses the C @id{longjmp} facility to yield a coroutine.
Therefore, if a @N{C function} @id{foo} calls an API function
and this API function yields
(directly or indirectly by calling another function that yields),
Lua cannot return to @id{foo} any more,
because the @id{longjmp} removes its frame from the C stack.

To avoid this kind of problem,
Lua raises an error whenever it tries to yield across an API call,
except for three functions:
@Lid{lua_yieldk}, @Lid{lua_callk}, and @Lid{lua_pcallk}.
All those functions receive a @def{continuation function}
(as a parameter named @id{k}) to continue execution after a yield.

We need to set some terminology to explain continuations.
We
have a @N{C function} called from Lua which we will call
the @emph{original function}.
This original function then calls one of those three functions in the C API,
which we will call the @emph{callee function},
that then yields the current thread.
(This can happen when the callee function is @Lid{lua_yieldk},
or when the callee function is either @Lid{lua_callk} or @Lid{lua_pcallk}
and the function called by them yields.)

Suppose the running thread yields while executing the callee function.
After the thread resumes,
it eventually will finish running the callee function.
However,
the callee function cannot return to the original function,
because its frame in the C stack was destroyed by the yield.
Instead, Lua calls a @def{continuation function},
which was given as an argument to the callee function.

As the name implies,
the continuation function should continue the task
of the original function.

As an illustration, consider the following function:
@verbatim{
int original_function
 (lua_State *L) {
 ... /* code 1 */
 status = lua_pcall(L, n, m, h); /* calls Lua */
 ... /* code 2 */
}
}
Now we want to allow
the Lua code being run by @Lid{lua_pcall} to yield.
First, we can rewrite our function like here:
@verbatim{
int k (lua_State *L, int status, lua_KContext ctx) {
 ... /* code 2 */
}

int original_function (lua_State *L) {
 ... /* code 1 */
 return k(L, lua_pcall(L, n, m, h), ctx);
}
}
In the above code,
the new function @id{k} is a
@emph{continuation function} (with type @Lid{lua_KFunction}),
which should do all the work that the original function
was doing after calling @Lid{lua_pcall}.
Now, we must inform Lua that it must call @id{k} if the Lua code
being executed by @Lid{lua_pcall} gets interrupted in some way
(errors or yielding),
so we rewrite the code as here,
replacing @Lid{lua_pcall} by @Lid{lua_pcallk}:
@verbatim{
int original_function (lua_State *L) {
 ... /* code 1 */
 return k(L, lua_pcallk(L, n, m, h, ctx2, k), ctx1);
}
}
Note
 the external, explicit call to the continuation:
Lua will call the continuation only if needed, that is,
in case of errors or resuming after a yield.
If the called function returns normally without ever yielding,
@Lid{lua_pcallk} (and @Lid{lua_callk}) will also return normally.

(Of course, instead of calling the continuation in that case,
you can do the equivalent work directly inside the original function.)

Besides the Lua state,
the continuation function has two other parameters:
the final status of the call plus the context value (@id{ctx}) that
was passed originally to @Lid{lua_pcallk}.
(Lua does not use this context value;
it only passes this value from the original function to the
continuation function.)
For @Lid{lua_pcallk},
the status is the same value that would be returned by @Lid{lua_pcallk},
except that it is @Lid{LUA_YIELD} when being executed after a yield
(instead of @Lid{LUA_OK}).
For @Lid{lua_yieldk} and @Lid{lua_callk},
the status is always @Lid{LUA_YIELD} when
Lua calls the continuation.
(For these two functions,
Lua will not call the continuation in case of errors,
because they do not handle errors.)
Similarly, when using @Lid{lua_callk},
you should call the continuation function
with @Lid{LUA_OK} as the status.
(For @Lid{lua_yieldk}, there is not much point in calling
directly the continuation function,
because @Lid{lua_yieldk} usually does not return.)

Lua treats the continuation function as if it were the original function.
The continuation function receives the same Lua stack
from the original function,
in the same state it would be if the callee function had returned.
(For instance,
after a @Lid{lua_callk} the function and its arguments are
removed from the stack and replaced by the results from the call.)
It also has the same upvalues.
Whatever it returns is handled by Lua as if it were the return
of the original function.

}

@sect2{@title{Functions and Types}

Here we list all functions and types from the @N{C API} in
alphabetical
order.
Each function has an indicator like this:
@apii{o,p,x}

The first field, @T{o},
is how many elements the function pops from the stack.
The second field, @T{p},
is how many elements the function pushes onto the stack.
(Any function always pushes its results after popping its arguments.)
A field in the form @T{x|y} means the function can push (or pop)
@T{x} or @T{y} elements,
depending on the situation;
an interrogation mark @Char{?} means that
we cannot know how many elements the function pops/pushes
by looking only at its arguments
(e.g., they may depend on what is on the stack).
The third field, @T{x},
tells whether the function may raise errors:
@Char{-} means the function never raises any error;
@Char{m} means the function may raise out-of-memory errors
and errors running a @idx{__gc} metamethod;
@Char{e} means the function may raise any errors
(it can run arbitrary Lua code,
either directly or through metamethods);
@Char{v} means the function may raise an error on purpose.

@APIEntry{int
 lua_absindex (lua_State *L, int idx);|
@apii{0,0,-}

Converts the @x{acceptable index} @id{idx}
into an equivalent @x{absolute index}
(that is, one that does not depend on the stack top).

}

@APIEntry{
typedef void * (*lua_Alloc) (void *ud,
                             void *ptr,
                             size_t osize,
                             size_t nsize);|

The type of the @x{memory-allocation function} used by Lua states.
The allocator function must provide a
functionality similar to @id{realloc},
but not exactly the same.
Its arguments are
@id{ud}, an opaque pointer passed to @Lid{lua_newstate};
@id{ptr}, a pointer to the block being allocated/reallocated/freed;
@id{osize}, the original size of the block or some code about what

is being allocated;
and @id{nsize}, the new size of the block.

When @id{ptr} is not @id{NULL},
@id{osize} is the size of the block pointed by @id{ptr},
that is, the size given when it was allocated or reallocated.

When @id{ptr} is
@id{NULL},
@id{osize} encodes the kind of object that Lua is allocating.
@id{osize} is any of
@Lid{LUA_TSTRING}, @Lid{LUA_TTABLE}, @Lid{LUA_TFUNCTION},
@Lid{LUA_TUSERDATA}, or @Lid{LUA_TTHREAD} when (and only when)
Lua is creating a new object of that type.
When @id{osize} is some other value,
Lua is allocating memory for something else.

Lua assumes the following behavior from the allocator function:

When @id{nsize} is zero,
the allocator must behave like @id{free}
and return @id{NULL}.

When @id{nsize} is not zero,
the allocator must behave like @id{realloc}.
The allocator returns @id{NULL}
if and only if it cannot fulfill the request.
Lua assumes that the allocator never fails when
@T{osize >= nsize}.

Here is a simple implementation for the @x{allocator function}.
It is used in the auxiliary library by @Lid{luaL_newstate}.
@verbatim{
```
static void *l_alloc (void *ud, void *ptr, size_t osize,
                                  size_t nsize) {
 (void)ud;  (void)osize;  /* not
 used */
 if (nsize == 0) {
   free(ptr);
   return NULL;
 }
 else
   return realloc(ptr, nsize);
}
```
}
Note that @N{Standard C} ensures
that @T{free(NULL)} has no effect and that
@T{realloc(NULL,size)} is equivalent to @T{malloc(size)}.

This code assumes that @id{realloc} does not fail when shrinking a block.
(Although @N{Standard C} does not ensure this behavior,
it seems to be a safe assumption.)

}

@APIEntry{void lua_arith (lua_State *L, int op);|
@apii{2|1,1,e}

Performs an arithmetic or bitwise operation over the two values
(or one, in the case of negations)
at the top of the stack,
with the value at the top being the second operand,
pops these values, and pushes the result of the operation.
The function follows the semantics of the corresponding Lua operator
(that is, it may call metamethods).

The value of @id{op} must be one of the following constants:
@description{

@item{@defid{LUA_OPADD}| performs addition (@T{+})}
@item{@defid{LUA_OPSUB}| performs subtraction (@T{-})}
@item{@defid{LUA_OPMUL}|
 performs multiplication (@T{*})}
@item{@defid{LUA_OPDIV}| performs float division (@T{/})}
@item{@defid{LUA_OPIDIV}| performs floor division (@T{//})}
@item{@defid{LUA_OPMOD}| performs modulo (@T{%})}
@item{@defid{LUA_OPPOW}| performs exponentiation (@T{^})}
@item{@defid{LUA_OPUNM}| performs mathematical negation (unary @T{-})}
@item{@defid{LUA_OPBNOT}| performs bitwise NOT (@T{~})}
@item{@defid{LUA_OPBAND}| performs bitwise AND (@T{&})}
@item{@defid{LUA_OPBOR}| performs bitwise OR (@T{|})}
@item{@defid{LUA_OPBXOR}| performs bitwise exclusive OR (@T{~})}
@item{@defid{LUA_OPSHL}| performs left shift (@T{<<})}
@item{@defid{LUA_OPSHR}| performs right shift (@T{>>})}

}

}

@APIEntry{lua_CFunction lua_atpanic (lua_State *L, lua_CFunction panicf);|
@apii{0,0,-}

Sets a new panic function and returns the old one @see{C-error}.

}

@APIEntry{void lua_call (lua_State *L, int nargs, int nresults);|

@apii{nargs+1,nresults,e}

Calls a function.

To call a function you
must use the following protocol:
first, the function to be called is pushed onto the stack;
then, the arguments to the function are pushed
in direct order;
that is, the first argument is pushed first.
Finally you call @Lid{lua_call};
@id{nargs} is the number of arguments that you pushed onto the stack.
All arguments and the function value are popped from the stack
when the function is called.
The function results are pushed onto the stack when the function returns.
The number of results is adjusted to @id{nresults},
unless @id{nresults} is @defid{LUA_MULTRET}.
In this case, all results from the function are pushed;
Lua takes care that the returned values fit into the stack space,
but it does not ensure any extra space in the stack.
The function results are pushed onto the stack in direct order
(the first result is pushed first),
so that after the call the last result is on the top of the stack.

Any error inside the called function is propagated upwards
(with a @id{longjmp}).

The following
example shows how the host program can do the
equivalent to this Lua code:
@verbatim{
a = f("how", t.x, 14)
}
Here it is @N{in C}:
@verbatim{
lua_getglobal(L, "f"); /* function to be called */
lua_pushliteral(L, "how"); /* 1st argument */
lua_getglobal(L, "t"); /* table to be indexed */
lua_getfield(L, -1, "x"); /* push result of t.x (2nd arg) */
lua_remove(L, -2); /* remove 't' from the stack */
lua_pushinteger(L, 14); /* 3rd argument */
lua_call(L, 3, 1); /* call 'f' with 3 arguments and 1 result */
lua_setglobal(L, "a"); /* set global 'a' */
}
Note that the code above is @emph{balanced}:
at its end, the stack is back to its original configuration.
This is considered good programming practice.

}

@APIEntry{
void lua_callk (lua_State *L,
        int nargs,
        int nresults,
        lua_KContext ctx,
        lua_KFunction
 k);|
@apii{nargs + 1,nresults,e}

This function behaves exactly like @Lid{lua_call},
but allows the called function to yield @see{continuations}.

}

@APIEntry{typedef int (*lua_CFunction) (lua_State *L);|

Type for @N{C functions}.

In order to communicate properly with Lua,
a @N{C function} must use the following protocol,
which defines the way parameters and results are passed:
a @N{C function} receives its arguments from Lua in its stack
in direct order (the first argument is pushed first).
So, when the function starts,
@T{lua_gettop(L)} returns the number of arguments received by the function.
The first argument (if any) is at index 1
and its last argument is at index @T{lua_gettop(L)}.
To return values to Lua, a @N{C function} just pushes them onto the stack,
in direct order (the first result is pushed first),
and returns the number of results.
Any other value in the stack below the results will be properly
discarded by Lua.
Like a Lua function, a @N{C function} called
 by Lua can also return
many results.

As an example, the following function receives a variable number
of numeric arguments and returns their average and their sum:
@verbatim{
static int foo (lua_State *L) {
 int n = lua_gettop(L);   /* number of arguments */
 lua_Number sum = 0.0;
 int i;
 for (i = 1; i <= n; i++) {
   if (!lua_isnumber(L, i)) {

```
    lua_pushliteral(L, "incorrect argument");
    lua_error(L);
   }
   sum += lua_tonumber(L, i);
  }
  lua_pushnumber(L, sum/n);        /* first result */
  lua_pushnumber(L, sum);         /* second result */
  return 2;                   /* number of results */
}
}
```

```
}
```

@APIEntry{int lua_checkstack (lua_State *L, int n);|
@apii{0,0,-}

Ensures that the stack has space for at least @id{n} extra slots
(that is, that you can safely push up to @id{n} values into it).
It returns false if it cannot fulfill the request,
either because it would cause the stack
to be larger than a fixed maximum size
(typically at least several thousand
 elements) or
because it cannot allocate memory for the extra space.
This function never shrinks the stack;
if the stack already has space for the extra slots,
it is left unchanged.

}

@APIEntry{void lua_close (lua_State *L);|
@apii{0,0,-}

Destroys all objects in the given Lua state
(calling the corresponding garbage-collection metamethods, if any)
and frees all dynamic memory used by this state.
In several platforms, you may not need to call this function,
because all resources are naturally released when the host program ends.
On the other hand, long-running programs that create multiple states,
such as daemons or web servers,
will probably need to close states as soon as they are not needed.

}

@APIEntry{int lua_compare (lua_State *L, int index1, int index2, int op);|

@apii{0,0,e}

Compares two Lua values.
Returns 1 if the value at index @id{index1} satisfies @id{op}
when compared with the value at index @id{index2},
following the semantics of the corresponding Lua operator
(that
 is, it may call metamethods).
Otherwise @N{returns 0}.
Also @N{returns 0} if any of the indices is not valid.

The value of @id{op} must be one of the following constants:
@description{

@item{@defid{LUA_OPEQ}| compares for equality (@T{==})}
@item{@defid{LUA_OPLT}| compares for less than (@T{<})}
@item{@defid{LUA_OPLE}| compares for less or equal (@T{<=})}

}

}

@APIEntry{void lua_concat (lua_State *L, int n);|
@apii{n,1,e}

Concatenates the @id{n} values at the top of the stack,
pops them, and leaves the result at the top.
If @N{@T{n} is 1}, the result is the single value on the stack
(that is, the function does nothing);
if @id{n} is 0, the result is the empty string.
Concatenation is performed following the usual semantics of Lua
@see{concat}.

}

@APIEntry{void lua_copy (lua_State *L, int fromidx, int toidx);|
@apii{0,0,-}

Copies the element at index @id{fromidx}
into the valid index @id{toidx},
replacing the value at that position.
Values at other positions are not affected.

}

@APIEntry{void
 lua_createtable (lua_State *L, int narr, int nrec);|
@apii{0,1,m}

Creates a new empty table and pushes it onto the stack.
Parameter @id{narr} is a hint for how many elements the table
will have as a sequence;
parameter @id{nrec} is a hint for how many other elements
the table will have.
Lua may use these hints to preallocate memory for the new table.
This preallocation is useful for performance when you know in advance
how many elements the table will have.
Otherwise you can use the function @Lid{lua_newtable}.

}

@APIEntry{int lua_dump (lua_State *L,
                lua_Writer writer,
                void *data,
                int strip);|
@apii{0,0,-}

Dumps a function as a binary chunk.
Receives a Lua function on the top of the stack
and produces a binary chunk that,
if loaded again,
results in a function equivalent to the one dumped.
As it produces parts of the chunk,
@Lid{lua_dump} calls function @id{writer} @seeC{lua_Writer}
with the
 given @id{data}
to write them.

If @id{strip} is true,
the binary representation may not include all debug information
about the function,
to save space.

The value returned is the error code returned by the last
call to the writer;
@N{0 means} no errors.

This function does not pop the Lua function from the stack.

}

@APIEntry{int lua_error (lua_State *L);|
@apii{1,0,v}

Generates a Lua error,
using the value at the top of the stack as the error object.

This function does a long jump,
and therefore never returns
@seeC{luaL_error}.

}

@APIEntry{int lua_gc (lua_State *L, int what, int data);|
@apii{0,0,m}

Controls the garbage collector.

This function performs several tasks,
according to the value of the parameter @id{what}:
@description{

@item{@id{LUA_GCSTOP}|
stops the garbage collector.
}

@item{@id{LUA_GCRESTART}|
restarts the garbage collector.
}

@item{@id{LUA_GCCOLLECT}|
performs a full garbage-collection cycle.
}

@item{@id{LUA_GCCOUNT}|
returns the current amount of memory
 (in Kbytes) in use by Lua.
}

@item{@id{LUA_GCCOUNTB}|
returns the remainder of dividing the current amount of bytes of
memory in use by Lua by 1024.
}

@item{@id{LUA_GCSTEP}|
performs an incremental step of garbage collection.
}

@item{@id{LUA_GCSETPAUSE}|
sets @id{data} as the new value
for the @emph{pause} of the collector @see{GC}
and returns the previous value of the pause.
}

@item{@id{LUA_GCSETSTEPMUL}|

sets @id{data} as the new value for the @emph{step multiplier} of
the collector @see{GC}
and returns the previous value of the step multiplier.
}

@item{@id{LUA_GCISRUNNING}|
returns a boolean that tells whether the collector is running
(i.e., not stopped).
}

}

For more details about these options,
see @Lid{collectgarbage}.

}

@APIEntry{lua_Alloc lua_getallocf (lua_State *L, void **ud);|
@apii{0,0,-}

Returns the @x{memory-allocation function} of a given state.
If @id{ud} is not @id{NULL}, Lua stores in @T{*ud} the
opaque pointer given when the memory-allocator function was set.

}

@APIEntry{int
 lua_getfield (lua_State *L, int index, const char *k);|
@apii{0,1,e}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the value at the given index.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{void *lua_getextraspace (lua_State *L);|
@apii{0,0,-}

Returns a pointer to a raw memory area associated with the
given Lua state.
The application can use this area for any purpose;
Lua does not use it for anything.

Each new thread has this area initialized with a copy

of the area of the @x{main thread}.

By default, this area has the size of a pointer to void,
but you can recompile Lua with a different size for this area.
(See @id{LUA_EXTRASPACE} in @id{luaconf.h}.)

}

@APIEntry{int lua_getglobal (lua_State *L, const char *name);|
@apii{0,1,e}

Pushes onto the stack the value of the global @id{name}.
Returns the type of that value.

}

@APIEntry{int lua_geti (lua_State
 *L, int index, lua_Integer i);|
@apii{0,1,e}

Pushes onto the stack the value @T{t[i]},
where @id{t} is the value at the given index.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{int lua_getmetatable (lua_State *L, int index);|
@apii{0,0|1,-}

If the value at the given index has a metatable,
the function pushes that metatable onto the stack and @N{returns 1}.
Otherwise,
the function @N{returns 0} and pushes nothing on the stack.

}

@APIEntry{int lua_gettable (lua_State *L, int index);|
@apii{1,1,e}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the value at the given index
and @id{k} is the value at the top of the stack.

This function pops the key from the stack,
pushing the resulting value in its place.

As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{int lua_gettop (lua_State
 *L);|
@apii{0,0,-}

Returns the index of the top element in the stack.
Because indices start @N{at 1},
this result is equal to the number of elements in the stack;
in particular, @N{0 means} an empty stack.

}

@APIEntry{int lua_getuservalue (lua_State *L, int index);|
@apii{0,1,-}

Pushes onto the stack the Lua value associated with the full userdata
at the given index.

Returns the type of the pushed value.

}

@APIEntry{void lua_insert (lua_State *L, int index);|
@apii{1,1,-}

Moves the top element into the given valid index,
shifting up the elements above this index to open space.
This function cannot be called with a pseudo-index,
because a pseudo-index is not an actual stack position.

}

@APIEntry{typedef @ldots lua_Integer;|

The type of integers in Lua.

By default this type is @id{long long},
(usually a 64-bit two-complement integer),
but that can be changed to @id{long} or @id{int}
(usually a 32-bit two-complement integer).
(See @id{LUA_INT_TYPE} in @id{luaconf.h}.)

Lua also
defines the constants
@defid{LUA_MININTEGER} and @defid{LUA_MAXINTEGER},
with the minimum and the maximum values that fit in this type.

}

@APIEntry{int lua_isboolean (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a boolean,
and @N{0 otherwise}.

}

@APIEntry{int lua_iscfunction (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a @N{C function},
and @N{0 otherwise}.

}

@APIEntry{int lua_isfunction (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a function
(either C or Lua), and @N{0 otherwise}.

}

@APIEntry{int lua_isinteger (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is an integer
(that is, the value is a number and is represented as an integer),
and @N{0 otherwise}.

}

@APIEntry{int lua_islightuserdata (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a light userdata,
and @N{0 otherwise}.

}

@APIEntry{int
 lua_isnil (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is @nil,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnone (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the given index is not valid,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnoneornil (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the given index is not valid
or if the value at this index is @nil,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnumber (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a number
or a string convertible to a number,
and @N{0 otherwise}.

}

@APIEntry{int lua_isstring (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a string
or a number (which is always convertible to a string),
and @N{0 otherwise}.

}

@APIEntry{int lua_istable (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a table,

and @N{0 otherwise}.

}

@APIEntry{int
 lua_isthread (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a thread,
and @N{0 otherwise}.

}

@APIEntry{int lua_isuserdata (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a userdata
(either full or light), and @N{0 otherwise}.

}

@APIEntry{int lua_isyieldable (lua_State *L);|
@apii{0,0,-}

Returns 1 if the given coroutine can yield,
and @N{0 otherwise}.

}

@APIEntry{typedef @ldots lua_KContext;|

The type for continuation-function contexts.
It must be a numeric type.
This type is defined as @id{intptr_t}
when @id{intptr_t} is available,
so that it can store pointers too.
Otherwise, it is defined as @id{ptrdiff_t}.

}

@APIEntry{
typedef int (*lua_KFunction) (lua_State *L, int status, lua_KContext ctx);|

Type for continuation functions @see{continuations}.

}

@APIEntry{void lua_len (lua_State *L, int index);|

@apii{0,1,e}

Returns the length of the value at the given index.
It is equivalent to
 the @Char{#} operator in Lua @see{len-op} and
may trigger a metamethod for the @Q{length} event @see{metatable}.
The result is pushed on the stack.

}

@APIEntry{
int lua_load (lua_State *L,
        lua_Reader reader,
        void *data,
        const char *chunkname,
        const char *mode);|
@apii{0,1,-}

Loads a Lua chunk without running it.
If there are no errors,
@id{lua_load} pushes the compiled chunk as a Lua
function on top of the stack.
Otherwise, it pushes an error message.

The return values of @id{lua_load} are:
@description{

@item{@Lid{LUA_OK}| no errors;}

@item{@defid{LUA_ERRSYNTAX}|
syntax error during precompilation;}

@item{@Lid{LUA_ERRMEM}|
@x{memory allocation (out-of-memory) error};}

@item{@Lid{LUA_ERRGCMM}|
error while running a @idx{__gc} metamethod.
(This error has no relation with the chunk being loaded.
It is generated by the garbage collector.)
}

}

The @id{lua_load} function uses a user-supplied @id{reader} function
to read the
 chunk @seeC{lua_Reader}.
The @id{data} argument is an opaque value passed to the reader function.

The @id{chunkname} argument gives a name to the chunk,
which is used for error messages and in debug information @see{debugI}.

@id{lua_load} automatically detects whether the chunk is text or binary
and loads it accordingly (see program @idx{luac}).
The string @id{mode} works as in function @Lid{load},
with the addition that
a @id{NULL} value is equivalent to the string @St{bt}.

@id{lua_load} uses the stack internally,
so the reader function must always leave the stack
unmodified when returning.

If the resulting function has upvalues,
its first upvalue is set to the value of the @x{global environment}
stored at index @id{LUA_RIDX_GLOBALS} in the registry @see{registry}.
When loading main chunks,
this upvalue will be the @id{_ENV} variable @see{globalenv}.
Other upvalues are initialized with @nil.

}

@APIEntry{lua_State *lua_newstate (lua_Alloc f, void *ud);|
@apii{0,0,-}

Creates a new
 thread running in a new, independent state.
Returns @id{NULL} if it cannot create the thread or the state
(due to lack of memory).
The argument @id{f} is the @x{allocator function};
Lua does all memory allocation for this state
through this function @seeF{lua_Alloc}.
The second argument, @id{ud}, is an opaque pointer that Lua
passes to the allocator in every call.

}

@APIEntry{void lua_newtable (lua_State *L);|
@apii{0,1,m}

Creates a new empty table and pushes it onto the stack.
It is equivalent to @T{lua_createtable(L, 0, 0)}.

}

@APIEntry{lua_State *lua_newthread (lua_State *L);|
@apii{0,1,m}

Creates a new thread, pushes it on the stack,
and returns a pointer to a @Lid{lua_State} that represents this new thread.
The new thread returned by this function shares with the original thread
its global environment,
but has an independent execution stack.

There is no explicit function to close or to destroy a thread.
Threads are subject to garbage collection,
like any Lua object.

}

@APIEntry{void
 *lua_newuserdata (lua_State *L, size_t size);|
@apii{0,1,m}

This function allocates a new block of memory with the given size,
pushes onto the stack a new full userdata with the block address,
and returns this address.
The host program can freely use this memory.

}

@APIEntry{int lua_next (lua_State *L, int index);|
@apii{1,2|0,e}

Pops a key from the stack,
and pushes a key@En{}value pair from the table at the given index
(the @Q{next} pair after the given key).
If there are no more elements in the table,
then @Lid{lua_next} returns 0 (and pushes nothing).

A typical traversal looks like this:
@verbatim{
/* table is in the stack at index 't' */
lua_pushnil(L); /* first key */
while (lua_next(L, t) != 0) {
 /* uses 'key' (at index -2) and 'value' (at index -1) */
 printf("%s - %s\n",
        lua_typename(L, lua_type(L, -2)),
        lua_typename(L, lua_type(L, -1)));
 /* removes 'value'; keeps 'key' for next iteration */
 lua_pop(L, 1);
}
}

While traversing a table,
do

not call @Lid{lua_tolstring} directly on a key,
unless you know that the key is actually a string.
Recall that @Lid{lua_tolstring} may change
the value at the given index;
this confuses the next call to @Lid{lua_next}.

See function @Lid{next} for the caveats of modifying
the table during its traversal.

}

@APIEntry{typedef @ldots lua_Number;|

The type of floats in Lua.

By default this type is double,
but that can be changed to a single float or a long double.
(See @id{LUA_FLOAT_TYPE} in @id{luaconf.h}.)

}

@APIEntry{int lua_numbertointeger (lua_Number n, lua_Integer *p);|

Converts a Lua float to a Lua integer.
This macro assumes that @id{n} has an integral value.
If that value is within the range of Lua integers,
it is converted to an integer and assigned to @T{*p}.
The macro results in a boolean indicating whether the
conversion was successful.
(Note that this range test can be tricky to do
correctly without this macro,
due to roundings.)

This macro may evaluate its arguments
more than once.

}

@APIEntry{int lua_pcall (lua_State *L, int nargs, int nresults, int msgh);|
@apii{nargs + 1,nresults|1,-}

Calls a function in protected mode.

Both @id{nargs} and @id{nresults} have the same meaning as
in @Lid{lua_call}.
If there are no errors during the call,
@Lid{lua_pcall} behaves exactly like @Lid{lua_call}.
However, if there is any error,

@Lid{lua_pcall} catches it,
pushes a single value on the stack (the error object),
and returns an error code.
Like @Lid{lua_call},
@Lid{lua_pcall} always removes the function
and its arguments from the stack.

If @id{msgh} is 0,
then the error object returned on the stack
is exactly the original error object.
Otherwise, @id{msgh} is the stack index of a
@emph{message handler}.
(This index cannot be a pseudo-index.)
In case of runtime errors,
this function will be called with the error object
and its return value will be the object
returned on the stack by @Lid{lua_pcall}.

Typically, the message handler is used to add
 more debug
information to the error object, such as a stack traceback.
Such information cannot be gathered after the return of @Lid{lua_pcall},
since by then the stack has unwound.

The @Lid{lua_pcall} function returns one of the following constants
(defined in @id{lua.h}):
@description{

@item{@defid{LUA_OK} (0)|
success.}

@item{@defid{LUA_ERRRUN}|
a runtime error.
}

@item{@defid{LUA_ERRMEM}|
@x{memory allocation error}.
For such errors, Lua does not call the @x{message handler}.
}

@item{@defid{LUA_ERRERR}|
error while running the @x{message handler}.
}

@item{@defid{LUA_ERRGCMM}|
error while running a @idx{__gc} metamethod.
For such errors, Lua does not call the @x{message handler}
(as this kind of error typically has no relation

with the function being called).
}

}

}

@APIEntry{
int lua_pcallk (lua_State *L,
	int nargs,
	int nresults,
	int msgh,
	lua_KContext ctx,
	lua_KFunction k);|
@apii{nargs + 1,nresults|1,-}

This
 function behaves exactly like @Lid{lua_pcall},
but allows the called function to yield @see{continuations}.

}

@APIEntry{void lua_pop (lua_State *L, int n);|
@apii{n,0,-}

Pops @id{n} elements from the stack.

}

@APIEntry{void lua_pushboolean (lua_State *L, int b);|
@apii{0,1,-}

Pushes a boolean value with value @id{b} onto the stack.

}

@APIEntry{void lua_pushcclosure (lua_State *L, lua_CFunction fn, int n);|
@apii{n,1,m}

Pushes a new @N{C closure} onto the stack.

When a @N{C function} is created,
it is possible to associate some values with it,
thus creating a @x{@N{C closure}} @see{c-closure};
these values are then accessible to the function whenever it is called.
To associate values with a @N{C function},
first these values must be pushed onto the stack
(when there are multiple values, the first value is pushed first).

Then @Lid{lua_pushcclosure}
is called to create and push the @N{C function} onto the stack,
with the argument @id{n} telling how many values will
be
associated with the function.
@Lid{lua_pushcclosure} also pops these values from the stack.

The maximum value for @id{n} is 255.

When @id{n} is zero,
this function creates a @def{light @N{C function}},
which is just a pointer to the @N{C function}.
In that case, it never raises a memory error.

}

@APIEntry{void lua_pushcfunction (lua_State *L, lua_CFunction f);|
@apii{0,1,-}

Pushes a @N{C function} onto the stack.
This function receives a pointer to a @N{C function}
and pushes onto the stack a Lua value of type @id{function} that,
when called, invokes the corresponding @N{C function}.

Any function to be callable by Lua must
follow the correct protocol to receive its parameters
and return its results @seeC{lua_CFunction}.

}

@APIEntry{const char *lua_pushfstring (lua_State *L, const char *fmt, ...);|
@apii{0,1,e}

Pushes onto the stack a formatted string
and returns a pointer to this string.
It is similar to the @ANSI{sprintf},
but has some important differences:
@itemize{

@item{
You
do not have to allocate space for the result:
the result is a Lua string and Lua takes care of memory allocation
(and deallocation, through garbage collection).
}

@item{
The conversion specifiers are quite restricted.

There are no flags, widths, or precisions.
The conversion specifiers can only be
@Char{%%} (inserts the character @Char{%}),
@Char{%s} (inserts a zero-terminated string, with no size restrictions),
@Char{%f} (inserts a @Lid{lua_Number}),
@Char{%I} (inserts a @Lid{lua_Integer}),
@Char{%p} (inserts a pointer as a hexadecimal numeral),
@Char{%d} (inserts an @T{int}),
@Char{%c} (inserts an @T{int} as a one-byte character), and
@Char{%U} (inserts a @T{long int} as a @x{UTF-8} byte sequence).
}

}

Unlike other push functions,
this function checks for the stack space it needs,
including the slot for its result.

}

@APIEntry{void lua_pushglobaltable (lua_State *L);|
@apii{0,1,-}

Pushes the @x{global environment} onto the stack.

}

@APIEntry{void lua_pushinteger (lua_State
 *L, lua_Integer n);|
@apii{0,1,-}

Pushes an integer with value @id{n} onto the stack.

}

@APIEntry{void lua_pushlightuserdata (lua_State *L, void *p);|
@apii{0,1,-}

Pushes a light userdata onto the stack.

Userdata represent @N{C values} in Lua.
A @def{light userdata} represents a pointer, a @T{void*}.
It is a value (like a number):
you do not create it, it has no individual metatable,
and it is not collected (as it was never created).
A light userdata is equal to @Q{any}
light userdata with the same @N{C address}.

}

@APIEntry{const char *lua_pushliteral (lua_State *L, const char *s);|
@apii{0,1,m}

This macro is equivalent to @Lid{lua_pushstring},
but should be used only when @id{s} is a literal string.

}

@APIEntry{const char *lua_pushlstring (lua_State *L, const char *s, size_t len);|
@apii{0,1,m}

Pushes the string pointed to by @id{s} with size @id{len}
onto the stack.
Lua makes (or reuses) an internal copy of the given string,
so the memory at @id{s} can be freed
or reused immediately after
the function returns.
The string can contain any binary data,
including @x{embedded zeros}.

Returns a pointer to the internal copy of the string.

}

@APIEntry{void lua_pushnil (lua_State *L);|
@apii{0,1,-}

Pushes a nil value onto the stack.

}

@APIEntry{void lua_pushnumber (lua_State *L, lua_Number n);|
@apii{0,1,-}

Pushes a float with value @id{n} onto the stack.

}

@APIEntry{const char *lua_pushstring (lua_State *L, const char *s);|
@apii{0,1,m}

Pushes the zero-terminated string pointed to by @id{s}
onto the stack.
Lua makes (or reuses) an internal copy of the given string,
so the memory at @id{s} can be freed or reused immediately after
the function returns.

Returns a pointer to the internal copy of the string.

If @id{s} is @id{NULL}, pushes @nil and returns @id{NULL}.

}

@APIEntry{int lua_pushthread (lua_State *L);|
@apii{0,1,-}

Pushes the thread represented by @id{L} onto the stack.
Returns 1 if this thread is the @x{main thread} of its state.

}

@APIEntry{void
 lua_pushvalue (lua_State *L, int index);|
@apii{0,1,-}

Pushes a copy of the element at the given index
onto the stack.

}

@APIEntry{
const char *lua_pushvfstring (lua_State *L,
                              const char *fmt,
                              va_list argp);|
@apii{0,1,m}

Equivalent to @Lid{lua_pushfstring}, except that it receives a @id{va_list}
instead of a variable number of arguments.

}

@APIEntry{int lua_rawequal (lua_State *L, int index1, int index2);|
@apii{0,0,-}

Returns 1 if the two values in indices @id{index1} and
@id{index2} are primitively equal
(that is, without calling the @idx{__eq} metamethod).
Otherwise @N{returns 0}.
Also @N{returns 0} if any of the indices are not valid.

}

@APIEntry{int lua_rawget (lua_State *L, int index);|
@apii{1,1,-}

Similar to @Lid{lua_gettable}, but does a raw access
(i.e., without metamethods).

}

@APIEntry{int lua_rawgeti (lua_State *L, int index, lua_Integer n);|
@apii{0,1,-}

Pushes onto the stack the
 value @T{t[n]},
where @id{t} is the table at the given index.
The access is raw,
that is, it does not invoke the @idx{__index} metamethod.

Returns the type of the pushed value.

}

@APIEntry{int lua_rawgetp (lua_State *L, int index, const void *p);|
@apii{0,1,-}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the table at the given index and
@id{k} is the pointer @id{p} represented as a light userdata.
The access is raw;
that is, it does not invoke the @idx{__index} metamethod.

Returns the type of the pushed value.

}

@APIEntry{size_t lua_rawlen (lua_State *L, int index);|
@apii{0,0,-}

Returns the raw @Q{length} of the value at the given index:
for strings, this is the string length;
for tables, this is the result of the length operator (@Char{#})
with no metamethods;
for userdata, this is the size of the block of memory allocated
for the userdata;
for other values, it @N{is 0}.

}

@APIEntry{void lua_rawset (lua_State *L, int index);|
@apii{2,0,m}

Similar to @Lid{lua_settable},
but does a raw assignment
(i.e., without metamethods).

}

@APIEntry{void lua_rawseti (lua_State *L, int index, lua_Integer i);|
@apii{1,0,m}

Does the equivalent of @T{t[i] = v},
where @id{t} is the table at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
The assignment is raw,
that is, it does not invoke the @idx{__newindex} metamethod.

}

@APIEntry{void lua_rawsetp (lua_State *L, int index, const void *p);|
@apii{1,0,m}

Does the equivalent of @T{t[p] = v},
where @id{t} is the table at the given index,
@id{p} is encoded as a light userdata,
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
The assignment is raw,
that is, it does not invoke @idx{__newindex} metamethod.

}

@APIEntry{
typedef const char * (*lua_Reader) (lua_State *L,
                                    void *data,
                                    size_t *size);|

The reader function used by @Lid{lua_load}.
Every
time it needs another piece of the chunk,
@Lid{lua_load} calls the reader,
passing along its @id{data} parameter.
The reader must return a pointer to a block of memory
with a new piece of the chunk
and set @id{size} to the block size.
The block must exist until the reader function is called again.
To signal the end of the chunk,

the reader must return @id{NULL} or set @id{size} to zero.
The reader function may return pieces of any size greater than zero.

}

@APIEntry{void lua_register (lua_State *L, const char *name, lua_CFunction f);|
@apii{0,0,e}

Sets the @N{C function} @id{f} as the new value of global @id{name}.
It is defined as a macro:
@verbatim{
#define lua_register(L,n,f) \
    (lua_pushcfunction(L, f), lua_setglobal(L, n))
}

}

@APIEntry{void lua_remove (lua_State *L, int index);|
@apii{1,0,-}

Removes the element at the given valid index,
shifting down the elements above this index to fill the gap.
This function cannot be called with a pseudo-index,
because
 a pseudo-index is not an actual stack position.

}

@APIEntry{void lua_replace (lua_State *L, int index);|
@apii{1,0,-}

Moves the top element into the given valid index
without shifting any element
(therefore replacing the value at that given index),
and then pops the top element.

}

@APIEntry{int lua_resume (lua_State *L, lua_State *from, int nargs);|
@apii{?,?,-}

Starts and resumes a coroutine in the given thread @id{L}.

To start a coroutine,
you push onto the thread stack the main function plus any arguments;
then you call @Lid{lua_resume},
with @id{nargs} being the number of arguments.
This call returns when the coroutine suspends or finishes its execution.

When it returns, the stack contains all values passed to @Lid{lua_yield},
or all values returned by the body function.
@Lid{lua_resume} returns
@Lid{LUA_YIELD} if the coroutine yields,
@Lid{LUA_OK} if the coroutine finishes its execution
without errors,
or an error code in case of errors @seeC{lua_pcall}.

In case of errors,
the
stack is not unwound,
so you can use the debug API over it.
The error object is on the top of the stack.

To resume a coroutine,
you remove any results from the last @Lid{lua_yield},
put on its stack only the values to
be passed as results from @id{yield},
and then call @Lid{lua_resume}.

The parameter @id{from} represents the coroutine that is resuming @id{L}.
If there is no such coroutine,
this parameter can be @id{NULL}.

}

@APIEntry{void lua_rotate (lua_State *L, int idx, int n);|
@apii{0,0,-}

Rotates the stack elements between the valid index @id{idx}
and the top of the stack.
The elements are rotated @id{n} positions in the direction of the top,
for a positive @id{n},
or @T{-n} positions in the direction of the bottom,
for a negative @id{n}.
The absolute value of @id{n} must not be greater than the size
of the slice being rotated.
This function cannot be called with a pseudo-index,
because a pseudo-index is not an actual stack position.

}

@APIEntry{void lua_setallocf
(lua_State *L, lua_Alloc f, void *ud);|
@apii{0,0,-}

Changes the @x{allocator function} of a given state to @id{f}
with user data @id{ud}.

}

@APIEntry{void lua_setfield (lua_State *L, int index, const char *k);|
@apii{1,0,e}

Does the equivalent to @T{t[k] = v},
where @id{t} is the value at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event @see{metatable}.

}

@APIEntry{void lua_setglobal (lua_State *L, const char *name);|
@apii{1,0,e}

Pops a value from the stack and
sets it as the new value of global @id{name}.

}

@APIEntry{void lua_seti (lua_State *L, int index, lua_Integer n);|
@apii{1,0,e}

Does the equivalent to @T{t[n] = v},
where @id{t} is the value at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event
@see{metatable}.

}

@APIEntry{void lua_setmetatable (lua_State *L, int index);|
@apii{1,0,-}

Pops a table from the stack and
sets it as the new metatable for the value at the given index.

}

@APIEntry{void lua_settable (lua_State *L, int index);|
@apii{2,0,e}

Does the equivalent to @T{t[k] = v},
where @id{t} is the value at the given index,
@id{v} is the value at the top of the stack,
and @id{k} is the value just below the top.

This function pops both the key and the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event @see{metatable}.

}

@APIEntry{void lua_settop (lua_State *L, int index);|
@apii{?,?,-}

Accepts any index, @N{or 0},
and sets the stack top to this index.
If the new top is larger than the old one,
then the new elements are filled with @nil.
If @id{index} @N{is 0}, then all stack elements are removed.

}

@APIEntry{void lua_setuservalue (lua_State *L, int index);|
@apii{1,0,-}

Pops a value from the stack and sets it as
the
new value associated to the full userdata at the given index.

}

@APIEntry{typedef struct lua_State lua_State;|

An opaque structure that points to a thread and indirectly
(through the thread) to the whole state of a Lua interpreter.
The Lua library is fully reentrant:
it has no global variables.
All information about a state is accessible through this structure.

A pointer to this structure must be passed as the first argument to
every function in the library, except to @Lid{lua_newstate},
which creates a Lua state from scratch.

}

@APIEntry{int lua_status (lua_State *L);|
@apii{0,0,-}

Returns the status of the thread @id{L}.

The status can be 0 (@Lid{LUA_OK}) for a normal thread,
an error code if the thread finished the execution
of a @Lid{lua_resume} with an error,
or @defid{LUA_YIELD} if the thread is suspended.

You can only call functions in threads with status @Lid{LUA_OK}.
You can resume threads with status @Lid{LUA_OK}
(to start a new coroutine) or @Lid{LUA_YIELD}
(to
 resume a coroutine).

}

@APIEntry{size_t lua_stringtonumber (lua_State *L, const char *s);|
@apii{0,1,-}

Converts the zero-terminated string @id{s} to a number,
pushes that number into the stack,
and returns the total size of the string,
that is, its length plus one.
The conversion can result in an integer or a float,
according to the lexical conventions of Lua @see{lexical}.
The string may have leading and trailing spaces and a sign.
If the string is not a valid numeral,
returns 0 and pushes nothing.
(Note that the result can be used as a boolean,
true if the conversion succeeds.)

}

@APIEntry{int lua_toboolean (lua_State *L, int index);|
@apii{0,0,-}

Converts the Lua value at the given index to a @N{C boolean}
value (@N{0 or 1}).
Like all tests in Lua,
@Lid{lua_toboolean} returns true for any Lua value
different from @false and @nil;
otherwise it returns false.
(If you want to accept only actual boolean values,
use @Lid{lua_isboolean} to test the value's type.)

}

@APIEntry{lua_CFunction

lua_tocfunction (lua_State *L, int index);|
@apii{0,0,-}

Converts a value at the given index to a @N{C function}.
That value must be a @N{C function};
otherwise, returns @id{NULL}.

}

@APIEntry{lua_Integer lua_tointeger (lua_State *L, int index);|
@apii{0,0,-}

Equivalent to @Lid{lua_tointegerx} with @id{isnum} equal to @id{NULL}.

}

@APIEntry{lua_Integer lua_tointegerx (lua_State *L, int index, int *isnum);|
@apii{0,0,-}

Converts the Lua value at the given index
to the signed integral type @Lid{lua_Integer}.
The Lua value must be an integer,
or a number or string convertible to an integer @see{coercion};
otherwise, @id{lua_tointegerx} @N{returns 0}.

If @id{isnum} is not @id{NULL},
its referent is assigned a boolean value that
indicates whether the operation succeeded.

}

@APIEntry{const char *lua_tolstring (lua_State *L, int index, size_t *len);|
@apii{0,0,m}

Converts the Lua value at the given index to a @N{C string}.
If @id{len} is not @id{NULL},
it sets @T{*len}
with the string length.
The Lua value must be a string or a number;
otherwise, the function returns @id{NULL}.
If the value is a number,
then @id{lua_tolstring} also
@emph{changes the actual value in the stack to a string}.
(This change confuses @Lid{lua_next}
when @id{lua_tolstring} is applied to keys during a table traversal.)

@id{lua_tolstring} returns a pointer
to a string inside the Lua state.

This string always has a zero (@Char{\0})
after its last character (as @N{in C}),
but can contain other zeros in its body.

Because Lua has garbage collection,
there is no guarantee that the pointer returned by @id{lua_tolstring}
will be valid after the corresponding Lua value is removed from the stack.

}

@APIEntry{lua_Number lua_tonumber (lua_State *L, int index);|
@apii{0,0,-}

Equivalent to @Lid{lua_tonumberx} with @id{isnum} equal to @id{NULL}.

}

@APIEntry{lua_Number lua_tonumberx (lua_State *L, int index, int *isnum);|
@apii{0,0,-}

Converts the Lua value at the given index
to the
 @N{C type} @Lid{lua_Number} @seeC{lua_Number}.
The Lua value must be a number or a string convertible to a number
@see{coercion};
otherwise, @Lid{lua_tonumberx} @N{returns 0}.

If @id{isnum} is not @id{NULL},
its referent is assigned a boolean value that
indicates whether the operation succeeded.

}

@APIEntry{const void *lua_topointer (lua_State *L, int index);|
@apii{0,0,-}

Converts the value at the given index to a generic
@N{C pointer} (@T{void*}).
The value can be a userdata, a table, a thread, or a function;
otherwise, @id{lua_topointer} returns @id{NULL}.
Different objects will give different pointers.
There is no way to convert the pointer back to its original value.

Typically this function is used only for hashing and debug information.

}

@APIEntry{const char *lua_tostring (lua_State *L, int index);|

@apii{0,0,m}

Equivalent to @Lid{lua_tolstring} with @id{len} equal to @id{NULL}.

}

@APIEntry{lua_State *lua_tothread (lua_State *L, int index);|
@apii{0,0,-}

Converts the
value at the given index to a Lua thread
(represented as @T{lua_State*}).
This value must be a thread;
otherwise, the function returns @id{NULL}.

}

@APIEntry{void *lua_touserdata (lua_State *L, int index);|
@apii{0,0,-}

If the value at the given index is a full userdata,
returns its block address.
If the value is a light userdata,
returns its pointer.
Otherwise, returns @id{NULL}.

}

@APIEntry{int lua_type (lua_State *L, int index);|
@apii{0,0,-}

Returns the type of the value in the given valid index,
or @id{LUA_TNONE} for a non-valid (but acceptable) index.
The types returned by @Lid{lua_type} are coded by the following constants
defined in @id{lua.h}:
@defid{LUA_TNIL} (0),
@defid{LUA_TNUMBER},
@defid{LUA_TBOOLEAN},
@defid{LUA_TSTRING},
@defid{LUA_TTABLE},
@defid{LUA_TFUNCTION},
@defid{LUA_TUSERDATA},
@defid{LUA_TTHREAD},
and
@defid{LUA_TLIGHTUSERDATA}.

}

@APIEntry{const char *lua_typename (lua_State *L, int tp);|
@apii{0,0,-}

Returns the name of the type encoded by the value
@id{tp},
which must be one the values returned by @Lid{lua_type}.

}

@APIEntry{typedef @ldots lua_Unsigned;|

The unsigned version of @Lid{lua_Integer}.

}

@APIEntry{int lua_upvalueindex (int i);|
@apii{0,0,-}

Returns the pseudo-index that represents the @id{i}-th upvalue of
the running function @see{c-closure}.

}

@APIEntry{const lua_Number *lua_version (lua_State *L);|
@apii{0,0,-}

Returns the address of the version number
(a C static variable)
stored in the Lua core.
When called with a valid @Lid{lua_State},
returns the address of the version used to create that state.
When called with @id{NULL},
returns the address of the version running the call.

}

@APIEntry{
typedef int (*lua_Writer) (lua_State *L,
                           const void* p,
                           size_t sz,
                           void* ud);|

The type of the writer function used by @Lid{lua_dump}.
Every time it produces another piece of chunk,
@Lid{lua_dump} calls the writer,
passing along the buffer
to be written (@id{p}),
its size (@id{sz}),

and the @id{data} parameter supplied to @Lid{lua_dump}.

The writer returns an error code:
@N{0 means} no errors;
any other value means an error and stops @Lid{lua_dump} from
calling the writer again.

}

@APIEntry{void lua_xmove (lua_State *from, lua_State *to, int n);|
@apii{?,?,-}

Exchange values between different threads of the same state.

This function pops @id{n} values from the stack @id{from},
and pushes them onto the stack @id{to}.

}

@APIEntry{int lua_yield (lua_State *L, int nresults);|
@apii{?,?,e}

This function is equivalent to @Lid{lua_yieldk},
but it has no continuation @see{continuations}.
Therefore, when the thread resumes,
it continues the function that called
the function calling @id{lua_yield}.

}

@APIEntry{
int lua_yieldk (lua_State *L,
        int nresults,
        lua_KContext ctx,
        lua_KFunction k);|
@apii{?,?,e}

Yields a coroutine (thread).

When a @N{C function} calls @Lid{lua_yieldk},
the
running coroutine suspends its execution,
and the call to @Lid{lua_resume} that started this coroutine returns.
The parameter @id{nresults} is the number of values from the stack
that will be passed as results to @Lid{lua_resume}.

When the coroutine is resumed again,

Lua calls the given @x{continuation function} @id{k} to continue
the execution of the @N{C function} that yielded @see{continuations}.
This continuation function receives the same stack
from the previous function,
with the @id{n} results removed and
replaced by the arguments passed to @Lid{lua_resume}.
Moreover,
the continuation function receives the value @id{ctx}
that was passed to @Lid{lua_yieldk}.

Usually, this function does not return;
when the coroutine eventually resumes,
it continues executing the continuation function.
However, there is one special case,
which is when this function is called
from inside a line or a count hook @see{debugI}.
In that case, @id{lua_yieldk} should be called with no continuation
(probably
 in the form of @Lid{lua_yield}) and no results,
and the hook should return immediately after the call.
Lua will yield and,
when the coroutine resumes again,
it will continue the normal execution
of the (Lua) function that triggered the hook.

This function can raise an error if it is called from a thread
with a pending C call with no continuation function,
or it is called from a thread that is not running inside a resume
(e.g., the main thread).

}

}

@sect2{debugI| @title{The Debug Interface}

Lua has no built-in debugging facilities.
Instead, it offers a special interface
by means of functions and @emph{hooks}.
This interface allows the construction of different
kinds of debuggers, profilers, and other tools
that need @Q{inside information} from the interpreter.

@APIEntry{
typedef struct lua_Debug {
 int event;
 const char *name;   /* (n) */

```
 const char *namewhat;       /* (n) */
 const char *what;           /* (S) */
 const char *source;         /*
(S) */
 int currentline;            /* (l) */
 int linedefined;            /* (S) */
 int lastlinedefined;        /* (S) */
 unsigned char nups;         /* (u) number of upvalues */
 unsigned char nparams;      /* (u) number of parameters */
 char isvararg;              /* (u) */
 char istailcall;            /* (t) */
 char short_src[LUA_IDSIZE]; /* (S) */
 /* private part */
 @rep{other fields}
} lua_Debug;
|
```

A structure used to carry different pieces of
information about a function or an activation record.
@Lid{lua_getstack} fills only the private part
of this structure, for later use.
To fill the other fields of @Lid{lua_Debug} with useful information,
call @Lid{lua_getinfo}.

The fields of @Lid{lua_Debug} have the following meaning:
@description{

@item{@id{source}|
the name of the chunk that created the function.
If @T{source} starts with a @Char{@At},
it means that the function was defined in a file where
the file name follows the @Char{@At}.
If @T{source} starts with
 a @Char{=},
the remainder of its contents describe the source in a user-dependent manner.
Otherwise,
the function was defined in a string where
@T{source} is that string.
}

@item{@id{short_src}|
a @Q{printable} version of @T{source}, to be used in error messages.
}

@item{@id{linedefined}|
the line number where the definition of the function starts.
}

@item{@id{lastlinedefined}|
the line number where the definition of the function ends.
}

@item{@id{what}|
the string @T{"Lua"} if the function is a Lua function,
@T{"C"} if it is a @N{C function},
@T{"main"} if it is the main part of a chunk.
}

@item{@id{currentline}|
the current line where the given function is executing.
When no line information is available,
@T{currentline} is set to @num{-1}.
}

@item{@id{name}|
a reasonable name for the given function.
Because functions in Lua are first-class values,
they do not have a fixed name:
some functions can be the value of multiple global variables,
while others can be stored only in a table
 field.
The @T{lua_getinfo} function checks how the function was
called to find a suitable name.
If it cannot find a name,
then @id{name} is set to @id{NULL}.
}

@item{@id{namewhat}|
explains the @T{name} field.
The value of @T{namewhat} can be
@T{"global"}, @T{"local"}, @T{"method"},
@T{"field"}, @T{"upvalue"}, or @T{""} (the empty string),
according to how the function was called.
(Lua uses the empty string when no other option seems to apply.)
}

@item{@id{istailcall}|
true if this function invocation was called by a tail call.
In this case, the caller of this level is not in the stack.
}

@item{@id{nups}|
the number of upvalues of the function.
}

@item{@id{nparams}|

the number of fixed parameters of the function
(always @N{0 for} @N{C functions}).
}

@item{@id{isvararg}|
true if the function is a vararg function
(always true for @N{C functions}).
}

}

}

@APIEntry{lua_Hook lua_gethook (lua_State *L);|
@apii{0,0,-}

Returns the current hook function.

}

@APIEntry{int lua_gethookcount
 (lua_State *L);|
@apii{0,0,-}

Returns the current hook count.

}

@APIEntry{int lua_gethookmask (lua_State *L);|
@apii{0,0,-}

Returns the current hook mask.

}

@APIEntry{int lua_getinfo (lua_State *L, const char *what, lua_Debug *ar);|
@apii{0|1,0|1|2,e}

Gets information about a specific function or function invocation.

To get information about a function invocation,
the parameter @id{ar} must be a valid activation record that was
filled by a previous call to @Lid{lua_getstack} or
given as argument to a hook @seeC{lua_Hook}.

To get information about a function, you push it onto the stack
and start the @id{what} string with the character @Char{>}.
(In that case,

@id{lua_getinfo} pops the function from the top of the stack.)
For instance, to know in which line a function @id{f} was defined,
you can write the following code:
@verbatim{
lua_Debug ar;
lua_getglobal(L, "f"); /* get global 'f' */
lua_getinfo(L, ">S", &ar);
printf("%d\n", ar.linedefined);
}

Each character in the
 string @id{what}
selects some fields of the structure @id{ar} to be filled or
a value to be pushed on the stack:
@description{

@item{@Char{n}| fills in the field @id{name} and @id{namewhat};
}

@item{@Char{S}|
fills in the fields @id{source}, @id{short_src},
@id{linedefined}, @id{lastlinedefined}, and @id{what};
}

@item{@Char{l}| fills in the field @id{currentline};
}

@item{@Char{t}| fills in the field @id{istailcall};
}

@item{@Char{u}| fills in the fields
@id{nups}, @id{nparams}, and @id{isvararg};
}

@item{@Char{f}|
pushes onto the stack the function that is
running at the given level;
}

@item{@Char{L}|
pushes onto the stack a table whose indices are the
numbers of the lines that are valid on the function.
(A @emph{valid line} is a line with some associated code,
that is, a line where you can put a break point.
Non-valid lines include empty lines and comments.)

If this option is given together with option @Char{f},
its table is pushed after the function.

}

}

This function
 returns 0 on error
(for instance, an invalid option in @id{what}).

}

@APIEntry{const char *lua_getlocal (lua_State *L, const lua_Debug *ar, int n);|
@apii{0,0|1,-}

Gets information about a local variable of
a given activation record or a given function.

In the first case,
the parameter @id{ar} must be a valid activation record that was
filled by a previous call to @Lid{lua_getstack} or
given as argument to a hook @seeC{lua_Hook}.
The index @id{n} selects which local variable to inspect;
see @Lid{debug.getlocal} for details about variable indices
and names.

@Lid{lua_getlocal} pushes the variable's value onto the stack
and returns its name.

In the second case, @id{ar} must be @id{NULL} and the function
to be inspected must be at the top of the stack.
In this case, only parameters of Lua functions are visible
(as there is no information about what variables are active)
and no values are pushed onto the stack.

Returns @id{NULL} (and pushes nothing)
when the index is greater than
the
 number of active local variables.

}

@APIEntry{int lua_getstack (lua_State *L, int level, lua_Debug *ar);|
@apii{0,0,-}

Gets information about the interpreter runtime stack.

This function fills parts of a @Lid{lua_Debug} structure with
an identification of the @emph{activation record}
of the function executing at a given level.

@N{Level 0} is the current running function,
whereas level @M{n+1} is the function that has called level @M{n}
(except for tail calls, which do not count on the stack).
When there are no errors, @Lid{lua_getstack} returns 1;
when called with a level greater than the stack depth,
it returns 0.

}

@APIEntry{const char *lua_getupvalue (lua_State *L, int funcindex, int n);|
@apii{0,0|1,-}

Gets information about the @id{n}-th upvalue
of the closure at index @id{funcindex}.
It pushes the upvalue's value onto the stack
and returns its name.
Returns @id{NULL} (and pushes nothing)
when the index @id{n} is greater than the number of upvalues.

For @N{C functions}, this
 function uses the empty string @T{""}
as a name for all upvalues.
(For Lua functions,
upvalues are the external local variables that the function uses,
and that are consequently included in its closure.)

Upvalues have no particular order,
as they are active through the whole function.
They are numbered in an arbitrary order.

}

@APIEntry{typedef void (*lua_Hook) (lua_State *L, lua_Debug *ar);|

Type for debugging hook functions.

Whenever a hook is called, its @id{ar} argument has its field
@id{event} set to the specific event that triggered the hook.
Lua identifies these events with the following constants:
@defid{LUA_HOOKCALL}, @defid{LUA_HOOKRET},
@defid{LUA_HOOKTAILCALL}, @defid{LUA_HOOKLINE},
and @defid{LUA_HOOKCOUNT}.
Moreover, for line events, the field @id{currentline} is also set.
To get the value of any other field in @id{ar},
the hook must call @Lid{lua_getinfo}.

For call events, @id{event} can be @id{LUA_HOOKCALL},
the normal value, or @id{LUA_HOOKTAILCALL}, for a tail

call;
in this case, there will be no corresponding return event.

While Lua is running a hook, it disables other calls to hooks.
Therefore, if a hook calls back Lua to execute a function or a chunk,
this execution occurs without any calls to hooks.

Hook functions cannot have continuations,
that is, they cannot call @Lid{lua_yieldk},
@Lid{lua_pcallk}, or @Lid{lua_callk} with a non-null @id{k}.

Hook functions can yield under the following conditions:
Only count and line events can yield;
to yield, a hook function must finish its execution
calling @Lid{lua_yield} with @id{nresults} equal to zero
(that is, with no values).

}

@APIEntry{void lua_sethook (lua_State *L, lua_Hook f, int mask, int count);|
@apii{0,0,-}

Sets the debugging hook function.

Argument @id{f} is the hook function.
@id{mask} specifies on which events the hook will be called:
it is formed by a bitwise OR of the constants
@defid{LUA_MASKCALL},
@defid{LUA_MASKRET},
@defid{LUA_MASKLINE},
and @defid{LUA_MASKCOUNT}.
The
@id{count} argument is only meaningful when the mask
includes @id{LUA_MASKCOUNT}.
For each event, the hook is called as explained below:
@description{

@item{The call hook| is called when the interpreter calls a function.
The hook is called just after Lua enters the new function,
before the function gets its arguments.
}

@item{The return hook| is called when the interpreter returns from a function.
The hook is called just before Lua leaves the function.
There is no standard way to access the values
to be returned by the function.
}

@item{The line hook| is called when the interpreter is about to
start the execution of a new line of code,
or when it jumps back in the code (even to the same line).
(This event only happens while Lua is executing a Lua function.)
}

@item{The count hook| is called after the interpreter executes every
@T{count} instructions.
(This event only happens while Lua is executing a Lua function.)
}

}

A hook is disabled by setting @id{mask} to zero.

}

@APIEntry{const
 char *lua_setlocal (lua_State *L, const lua_Debug *ar, int n);|
@apii{0|1,0,-}

Sets the value of a local variable of a given activation record.
It assigns the value at the top of the stack
to the variable and returns its name.
It also pops the value from the stack.

Returns @id{NULL} (and pops nothing)
when the index is greater than
the number of active local variables.

Parameters @id{ar} and @id{n} are as in function @Lid{lua_getlocal}.

}

@APIEntry{const char *lua_setupvalue (lua_State *L, int funcindex, int n);|
@apii{0|1,0,-}

Sets the value of a closure's upvalue.
It assigns the value at the top of the stack
to the upvalue and returns its name.
It also pops the value from the stack.

Returns @id{NULL} (and pops nothing)
when the index @id{n} is greater than the number of upvalues.

Parameters @id{funcindex} and @id{n} are as in function @Lid{lua_getupvalue}.

}

@APIEntry{void *lua_upvalueid (lua_State *L, int funcindex, int n);|
@apii{0,0,-}

Returns a unique identifier
 for the upvalue numbered @id{n}
from the closure at index @id{funcindex}.

These unique identifiers allow a program to check whether different
closures share upvalues.
Lua closures that share an upvalue
(that is, that access a same external local variable)
will return identical ids for those upvalue indices.

Parameters @id{funcindex} and @id{n} are as in function @Lid{lua_getupvalue},
but @id{n} cannot be greater than the number of upvalues.

}

@APIEntry{
void lua_upvaluejoin (lua_State *L, int funcindex1, int n1,
                      int funcindex2, int n2);|
@apii{0,0,-}

Make the @id{n1}-th upvalue of the Lua closure at index @id{funcindex1}
refer to the @id{n2}-th upvalue of the Lua closure at index @id{funcindex2}.

}

}

}

@C{--}
@sect1{@title{The Auxiliary Library}

@index{lauxlib.h}
The @def{auxiliary library} provides several convenient functions
to interface C with Lua.
While the basic
 API provides the primitive functions for all
interactions between C and Lua,
the auxiliary library provides higher-level functions for some
common tasks.

All functions and types from the auxiliary library
are defined in header file @id{lauxlib.h} and

have a prefix @id{luaL_}.

All functions in the auxiliary library are built on
top of the basic API,
and so they provide nothing that cannot be done with that API.
Nevertheless, the use of the auxiliary library ensures
more consistency to your code.

Several functions in the auxiliary library use internally some
extra stack slots.
When a function in the auxiliary library uses less than five slots,
it does not check the stack size;
it simply assumes that there are enough slots.

Several functions in the auxiliary library are used to
check @N{C function} arguments.
Because the error message is formatted for arguments
(e.g., @St{bad argument #1}),
you should not use these functions for other stack values.

Functions called @id{luaL_check*}
always
 raise an error if the check is not satisfied.

@sect2{@title{Functions and Types}

Here we list all functions and types from the auxiliary library
in alphabetical order.

@APIEntry{void luaL_addchar (luaL_Buffer *B, char c);|
@apii{?,?,m}

Adds the byte @id{c} to the buffer @id{B}
@seeC{luaL_Buffer}.

}

@APIEntry{void luaL_addlstring (luaL_Buffer *B, const char *s, size_t l);|
@apii{?,?,m}

Adds the string pointed to by @id{s} with length @id{l} to
the buffer @id{B}
@seeC{luaL_Buffer}.
The string can contain @x{embedded zeros}.

}

@APIEntry{void luaL_addsize (luaL_Buffer *B, size_t n);|
@apii{?,?,-}

Adds to the buffer @id{B} @seeC{luaL_Buffer}
a string of length @id{n} previously copied to the
buffer area @seeC{luaL_prepbuffer}.

}

@APIEntry{void luaL_addstring (luaL_Buffer *B, const char *s);|
@apii{?,?,m}

Adds the zero-terminated string pointed to by @id{s}
to the buffer @id{B}
@seeC{luaL_Buffer}.

}

@APIEntry{void luaL_addvalue (luaL_Buffer *B);|
@apii{1,?,m}

Adds
the value at the top of the stack
to the buffer @id{B}
@seeC{luaL_Buffer}.
Pops the value.

This is the only function on string buffers that can (and must)
be called with an extra element on the stack,
which is the value to be added to the buffer.

}

@APIEntry{
void luaL_argcheck (lua_State *L,
int cond,
int arg,
const char *extramsg);|
@apii{0,0,v}

Checks whether @id{cond} is true.
If it is not, raises an error with a standard message @seeF{luaL_argerror}.

}

@APIEntry{int luaL_argerror (lua_State *L, int arg, const char *extramsg);|
@apii{0,0,v}

Raises an error reporting a problem with argument @id{arg}
of the @N{C function} that called it,
using a standard message
that includes @id{extramsg} as a comment:
@verbatim{
bad argument #@rep{arg} to '@rep{funcname}' (@rep{extramsg})
}
This function never returns.

}

@APIEntry{typedef struct luaL_Buffer luaL_Buffer;|

Type for a @def{string buffer}.

A string buffer allows @N{C
 code} to build Lua strings piecemeal.
Its pattern of use is as follows:
@itemize{

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

@item{Then initialize it with a call @T{luaL_buffinit(L, &b)}.}

@item{
Then add string pieces to the buffer calling any of
the @id{luaL_add*} functions.
}

@item{
Finish by calling @T{luaL_pushresult(&b)}.
This call leaves the final string on the top of the stack.
}

}

If you know beforehand the total size of the resulting string,
you can use the buffer like this:
@itemize{

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

@item{Then initialize it and preallocate a space of
size @id{sz} with a call @T{luaL_buffinitsize(L, &b, sz)}.}

@item{Then copy the string into that space.}

@item{
Finish by calling @T{luaL_pushresultsize(&b, sz)},
where @id{sz} is the total size of the resulting string
copied into that space.
}

}

During its normal operation,
a string buffer uses a variable number of stack slots.
So, while using
 a buffer, you cannot assume that you know where
the top of the stack is.
You can use the stack between successive calls to buffer operations
as long as that use is balanced;
that is,
when you call a buffer operation,
the stack is at the same level
it was immediately after the previous buffer operation.
(The only exception to this rule is @Lid{luaL_addvalue}.)
After calling @Lid{luaL_pushresult} the stack is back to its
level when the buffer was initialized,
plus the final string on its top.

}

@APIEntry{void luaL_buffinit (lua_State *L, luaL_Buffer *B);|
@apii{0,0,-}

Initializes a buffer @id{B}.
This function does not allocate any space;
the buffer must be declared as a variable
@seeC{luaL_Buffer}.

}

@APIEntry{char *luaL_buffinitsize (lua_State *L, luaL_Buffer *B, size_t sz);|
@apii{?,?,m}

Equivalent to the sequence
@Lid{luaL_buffinit}, @Lid{luaL_prepbuffsize}.

}

@APIEntry{int luaL_callmeta (lua_State *L, int obj, const char *e);|
@apii{0,0|1,e}

Calls a metamethod.

If the object
 at index @id{obj} has a metatable and this
metatable has a field @id{e},
this function calls this field passing the object as its only argument.
In this case this function returns true and pushes onto the
stack the value returned by the call.
If there is no metatable or no metamethod,
this function returns false (without pushing any value on the stack).

}

@APIEntry{void luaL_checkany (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function has an argument
of any type (including @nil) at position @id{arg}.

}

@APIEntry{lua_Integer luaL_checkinteger (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is an integer
(or can be converted to an integer)
and returns this integer cast to a @Lid{lua_Integer}.

}

@APIEntry{const char *luaL_checklstring (lua_State *L, int arg, size_t *l);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string
and returns this string;
if @id{l} is not @id{NULL} fills @T{*l}
with the string's length.

This
 function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{lua_Number luaL_checknumber (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a number
and returns this number.

}

@APIEntry{
int luaL_checkoption (lua_State *L,
                      int arg,
                      const char *def,
                      const char *const lst[]);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string and
searches for this string in the array @id{lst}
(which must be NULL-terminated).
Returns the index in the array where the string was found.
Raises an error if the argument is not a string or
if the string cannot be found.

If @id{def} is not @id{NULL},
the function uses @id{def} as a default value when
there is no argument @id{arg} or when this argument is @nil.

This is a useful function for mapping strings to @N{C enums}.
(The usual convention in Lua libraries
 is
to use strings instead of numbers to select options.)

}

@APIEntry{void luaL_checkstack (lua_State *L, int sz, const char *msg);|
@apii{0,0,v}

Grows the stack size to @T{top + sz} elements,
raising an error if the stack cannot grow to that size.
@id{msg} is an additional text to go into the error message
(or @id{NULL} for no additional text).

}

@APIEntry{const char *luaL_checkstring (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string
and returns this string.

This function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{void luaL_checktype (lua_State *L, int arg, int t);|
@apii{0,0,v}

Checks whether the function argument @id{arg} has type @id{t}.
See @Lid{lua_type} for the encoding of types for @id{t}.

}

@APIEntry{void *luaL_checkudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a userdata
of the
type @id{tname} @seeC{luaL_newmetatable} and
returns the userdata address @seeC{lua_touserdata}.

}

@APIEntry{void luaL_checkversion (lua_State *L);|
@apii{0,0,v}

Checks whether the core running the call,
the core that created the Lua state,
and the code making the call are all using the same version of Lua.
Also checks whether the core running the call
and the core that created the Lua state
are using the same address space.

}

@APIEntry{int luaL_dofile (lua_State *L, const char *filename);|
@apii{0,?,e}

Loads and runs the given file.
It is defined as the following macro:
@verbatim{
(luaL_loadfile(L, filename) || lua_pcall(L, 0, LUA_MULTRET, 0))
}
It returns false if there are no errors
or true in case of errors.

}

@APIEntry{int luaL_dostring (lua_State *L, const char *str);|
@apii{0,?,-}

Loads and runs the given string.

It is defined as the following macro:
@verbatim{
(luaL_loadstring(L, str) || lua_pcall(L, 0, LUA_MULTRET, 0))
}
It returns false if there are no errors
or true
 in case of errors.

}

@APIEntry{int luaL_error (lua_State *L, const char *fmt, ...);|
@apii{0,0,v}

Raises an error.
The error message format is given by @id{fmt}
plus any extra arguments,
following the same rules of @Lid{lua_pushfstring}.
It also adds at the beginning of the message the file name and
the line number where the error occurred,
if this information is available.

This function never returns,
but it is an idiom to use it in @N{C functions}
as @T{return luaL_error(@rep{args})}.

}

@APIEntry{int luaL_execresult (lua_State *L, int stat);|
@apii{0,3,m}

This function produces the return values for
process-related functions in the standard library
(@Lid{os.execute} and @Lid{io.close}).

}

@APIEntry{
int luaL_fileresult (lua_State *L, int stat, const char *fname);|
@apii{0,1|3,m}

This function produces the return values for
file-related functions in the standard library
(@Lid{io.open}, @Lid{os.rename}, @Lid{file:seek}, etc.).

}

@APIEntry{int luaL_getmetafield (lua_State

*L, int obj, const char *e);|
@apii{0,0|1,m}

Pushes onto the stack the field @id{e} from the metatable
of the object at index @id{obj} and returns the type of the pushed value.
If the object does not have a metatable,
or if the metatable does not have this field,
pushes nothing and returns @id{LUA_TNIL}.

}

@APIEntry{int luaL_getmetatable (lua_State *L, const char *tname);|
@apii{0,1,m}

Pushes onto the stack the metatable associated with name @id{tname}
in the registry @seeC{luaL_newmetatable}
(@nil if there is no metatable associated with that name).
Returns the type of the pushed value.

}

@APIEntry{int luaL_getsubtable (lua_State *L, int idx, const char *fname);|
@apii{0,1,e}

Ensures that the value @T{t[fname]},
where @id{t} is the value at index @id{idx},
is a table,
and pushes that table onto the stack.
Returns true if it finds a previous table there
and false if it creates a new table.

}

@APIEntry{
const char *luaL_gsub (lua_State *L,
                       const char *s,
                       const char *p,
                       const char *r);|
@apii{0,1,m}

Creates a copy of string @id{s} by replacing
any occurrence of the string @id{p}
with the string @id{r}.
Pushes the resulting string on the stack and returns it.

}

@APIEntry{lua_Integer luaL_len (lua_State *L, int index);|

@apii{0,0,e}

Returns the @Q{length} of the value at the given index
as a number;
it is equivalent to the @Char{#} operator in Lua @see{len-op}.
Raises an error if the result of the operation is not an integer.
(This case only can happen through metamethods.)

}

@APIEntry{
int luaL_loadbuffer (lua_State *L,
const char *buff,
size_t sz,
const char *name);|
@apii{0,1,-}

Equivalent to @Lid{luaL_loadbufferx} with @id{mode} equal to @id{NULL}.

}

@APIEntry{
int luaL_loadbufferx (lua_State *L,
const char *buff,
size_t sz,
const char *name,

const char *mode);|
@apii{0,1,-}

Loads a buffer as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in the
buffer pointed to by @id{buff} with size @id{sz}.

This function returns the same results as @Lid{lua_load}.
@id{name} is the chunk name,
used for debug information and error messages.
The string @id{mode} works as in function @Lid{lua_load}.

}

@APIEntry{int luaL_loadfile (lua_State *L, const char *filename);|
@apii{0,1,m}

Equivalent to @Lid{luaL_loadfilex} with @id{mode} equal to @id{NULL}.

}

@APIEntry{int luaL_loadfilex (lua_State *L, const char *filename,
                              const char *mode);|
@apii{0,1,m}

Loads a file as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in the file
named @id{filename}.
If @id{filename} is @id{NULL},
then it loads from the standard input.
The first line in the file is ignored if it starts with a @T{#}.

The string @id{mode} works as in function @Lid{lua_load}.

This function
 returns the same results as @Lid{lua_load},
but it has an extra error code @defid{LUA_ERRFILE}
for file-related errors
(e.g., it cannot open or read the file).

As @Lid{lua_load}, this function only loads the chunk;
it does not run it.

}

@APIEntry{int luaL_loadstring (lua_State *L, const char *s);|
@apii{0,1,-}

Loads a string as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in
the zero-terminated string @id{s}.

This function returns the same results as @Lid{lua_load}.

Also as @Lid{lua_load}, this function only loads the chunk;
it does not run it.

}

@APIEntry{void luaL_newlib (lua_State *L, const luaL_Reg l[]);|
@apii{0,1,m}

Creates a new table and registers there
the functions in list @id{l}.

It is implemented as the following macro:

@verbatim{
(luaL_newlibtable(L,l), luaL_setfuncs(L,l,0))
}
The array @id{l} must be the actual array,
not a pointer to it.

}

@APIEntry{void luaL_newlibtable (lua_State *L, const luaL_Reg l[]);|
@apii{0,1,m}

Creates a new
 table with a size optimized
to store all entries in the array @id{l}
(but does not actually store them).
It is intended to be used in conjunction with @Lid{luaL_setfuncs}
@seeF{luaL_newlib}.

It is implemented as a macro.
The array @id{l} must be the actual array,
not a pointer to it.

}

@APIEntry{int luaL_newmetatable (lua_State *L, const char *tname);|
@apii{0,1,m}

If the registry already has the key @id{tname},
returns 0.
Otherwise,
creates a new table to be used as a metatable for userdata,
adds to this new table the pair @T{__name = tname},
adds to the registry the pair @T{[tname] = new table},
and returns 1.
(The entry @idx{__name} is used by some error-reporting functions.)

In both cases pushes onto the stack the final value associated
with @id{tname} in the registry.

}

@APIEntry{lua_State *luaL_newstate (void);|
@apii{0,0,-}

Creates a new Lua state.
It calls @Lid{lua_newstate} with an
allocator based on the @N{standard C} @id{realloc} function
and then sets a panic function

@see{C-error} that prints
an error message to the standard error output in case of fatal
errors.

Returns the new state,
or @id{NULL} if there is a @x{memory allocation error}.

}

@APIEntry{void luaL_openlibs (lua_State *L);|
@apii{0,0,e}

Opens all standard Lua libraries into the given state.

}

@APIEntry{
T luaL_opt (L, func, arg, dflt);|
@apii{0,0,e}

This macro is defined as follows:
@verbatim{
(lua_isnoneornil(L,(arg)) ? (dflt) : func(L,(arg)))
}
In words, if the argument @id{arg} is nil or absent,
the macro results in the default @id{dflt}.
Otherwise, it results in the result of calling @id{func}
with the state @id{L} and the argument index @id{arg} as
arguments.
Note that it evaluates the expression @id{dflt} only if needed.

}

@APIEntry{
lua_Integer luaL_optinteger (lua_State *L,
                             int arg,
                             lua_Integer d);|
@apii{0,0,v}

If the function argument @id{arg} is an integer
(or convertible to an integer),
returns this integer.
If
this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}

@APIEntry{
const char *luaL_optlstring (lua_State *L,
                        int arg,
                        const char *d,
                        size_t *l);|
@apii{0,0,v}

If the function argument @id{arg} is a string,
returns this string.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

If @id{l} is not @id{NULL},
fills the position @T{*l} with the result's length.
If the result is @id{NULL}
(only possible when returning @id{d} and @T{d == NULL}),
its length is considered zero.

This function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{lua_Number luaL_optnumber (lua_State *L, int arg, lua_Number d);|
@apii{0,0,v}

If the function argument @id{arg} is a number,
returns this number.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}

@APIEntry{
const
 char *luaL_optstring (lua_State *L,
                        int arg,
                        const char *d);|
@apii{0,0,v}

If the function argument @id{arg} is a string,
returns this string.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}

@APIEntry{char *luaL_prepbuffer (luaL_Buffer *B);|
@apii{?,?,m}

Equivalent to @Lid{luaL_prepbuffsize}
with the predefined size @defid{LUAL_BUFFERSIZE}.

}

@APIEntry{char *luaL_prepbuffsize (luaL_Buffer *B, size_t sz);|
@apii{?,?,m}

Returns an address to a space of size @id{sz}
where you can copy a string to be added to buffer @id{B}
@seeC{luaL_Buffer}.
After copying the string into this space you must call
@Lid{luaL_addsize} with the size of the string to actually add
it to the buffer.

}

@APIEntry{void luaL_pushresult (luaL_Buffer *B);|
@apii{?,1,m}

Finishes the use of buffer @id{B} leaving the final string on
the top of the stack.

}

@APIEntry{void luaL_pushresultsize (luaL_Buffer
 *B, size_t sz);|
@apii{?,1,m}

Equivalent to the sequence @Lid{luaL_addsize}, @Lid{luaL_pushresult}.

}

@APIEntry{int luaL_ref (lua_State *L, int t);|
@apii{1,0,m}

Creates and returns a @def{reference},
in the table at index @id{t},
for the object at the top of the stack (and pops the object).

A reference is a unique integer key.
As long as you do not manually add integer keys into table @id{t},

@Lid{luaL_ref} ensures the uniqueness of the key it returns.
You can retrieve an object referred by reference @id{r}
by calling @T{lua_rawgeti(L, t, r)}.
Function @Lid{luaL_unref} frees a reference and its associated object.

If the object at the top of the stack is @nil,
@Lid{luaL_ref} returns the constant @defid{LUA_REFNIL}.
The constant @defid{LUA_NOREF} is guaranteed to be different
from any reference returned by @Lid{luaL_ref}.

}

@APIEntry{
typedef struct luaL_Reg {
 const char *name;
 lua_CFunction func;
} luaL_Reg;
|

Type for arrays of functions to be registered by
@Lid{luaL_setfuncs}.
@id{name}
 is the function name and @id{func} is a pointer to
the function.
Any array of @Lid{luaL_Reg} must end with a sentinel entry
in which both @id{name} and @id{func} are @id{NULL}.

}

@APIEntry{
void luaL_requiref (lua_State *L, const char *modname,
                    lua_CFunction openf, int glb);|
@apii{0,1,e}

If @id{modname} is not already present in @Lid{package.loaded},
calls function @id{openf} with string @id{modname} as an argument
and sets the call result in @T{package.loaded[modname]},
as if that function has been called through @Lid{require}.

If @id{glb} is true,
also stores the module into global @id{modname}.

Leaves a copy of the module on the stack.

}

@APIEntry{void luaL_setfuncs (lua_State *L, const luaL_Reg *l, int nup);|
@apii{nup,0,m}

Registers all functions in the array @id{l}
@seeC{luaL_Reg} into the table on the top of the stack
(below optional upvalues, see next).

When @id{nup} is not zero,
all functions are created sharing @id{nup} upvalues,
which
 must be previously pushed on the stack
on top of the library table.
These values are popped from the stack after the registration.

}

@APIEntry{void luaL_setmetatable (lua_State *L, const char *tname);|
@apii{0,0,-}

Sets the metatable of the object at the top of the stack
as the metatable associated with name @id{tname}
in the registry @seeC{luaL_newmetatable}.

}

@APIEntry{
typedef struct luaL_Stream {
 FILE *f;
 lua_CFunction closef;
} luaL_Stream;
|

The standard representation for @x{file handles},
which is used by the standard I/O library.

A file handle is implemented as a full userdata,
with a metatable called @id{LUA_FILEHANDLE}
(where @id{LUA_FILEHANDLE} is a macro with the actual metatable's name).
The metatable is created by the I/O library
@seeF{luaL_newmetatable}.

This userdata must start with the structure @id{luaL_Stream};
it can contain other data after this initial structure.
Field @id{f} points to the corresponding C stream
(or it can be @id{NULL} to
 indicate an incompletely created handle).
Field @id{closef} points to a Lua function
that will be called to close the stream
when the handle is closed or collected;
this function receives the file handle as its sole argument and

must return either @Rw{true} (in case of success)
or @nil plus an error message (in case of error).
Once Lua calls this field,
it changes the field value to @id{NULL}
to signal that the handle is closed.

}

@APIEntry{void *luaL_testudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,m}

This function works like @Lid{luaL_checkudata},
except that, when the test fails,
it returns @id{NULL} instead of raising an error.

}

@APIEntry{const char *luaL_tolstring (lua_State *L, int idx, size_t *len);|
@apii{0,1,e}

Converts any Lua value at the given index to a @N{C string}
in a reasonable format.
The resulting string is pushed onto the stack and also
returned by the function.
If @id{len} is not @id{NULL},
the function also sets @T{*len} with the string length.

If
 the value has a metatable with a @idx{__tostring} field,
then @id{luaL_tolstring} calls the corresponding metamethod
with the value as argument,
and uses the result of the call as its result.

}

@APIEntry{
void luaL_traceback (lua_State *L, lua_State *L1, const char *msg,
                     int level);|
@apii{0,1,m}

Creates and pushes a traceback of the stack @id{L1}.
If @id{msg} is not @id{NULL} it is appended
at the beginning of the traceback.
The @id{level} parameter tells at which level
to start the traceback.

}

@APIEntry{const char *luaL_typename (lua_State *L, int index);|
@apii{0,0,-}

Returns the name of the type of the value at the given index.

}

@APIEntry{void luaL_unref (lua_State *L, int t, int ref);|
@apii{0,0,-}

Releases reference @id{ref} from the table at index @id{t}
@seeC{luaL_ref}.
The entry is removed from the table,
so that the referred object can be collected.
The reference @id{ref} is also freed to be used again.

If @id{ref} is @Lid{LUA_NOREF} or
 @Lid{LUA_REFNIL},
@Lid{luaL_unref} does nothing.

}

@APIEntry{void luaL_where (lua_State *L, int lvl);|
@apii{0,1,m}

Pushes onto the stack a string identifying the current position
of the control at level @id{lvl} in the call stack.
Typically this string has the following format:
@verbatim{
@rep{chunkname}:@rep{currentline}:
}
@N{Level 0} is the running function,
@N{level 1} is the function that called the running function,
etc.

This function is used to build a prefix for error messages.

}

}

}

@C{--}
@sect1{libraries| @title{Standard Libraries}

The standard Lua libraries provide useful functions

that are implemented directly through the @N{C API}.
Some of these functions provide essential services to the language
(e.g., @Lid{type} and @Lid{getmetatable});
others provide access to @Q{outside} services (e.g., I/O);
and others could be implemented in Lua itself,
but are quite useful or have critical performance
requirements that
deserve an implementation in C (e.g., @Lid{table.sort}).

All libraries are implemented through the official @N{C API}
and are provided as separate @N{C modules}.
Currently, Lua has the following standard libraries:
@itemize{

@item{@link{predefined|basic library};}

@item{@link{corolib|coroutine library};}

@item{@link{packlib|package library};}

@item{@link{strlib|string manipulation};}

@item{@link{utf8|basic UTF-8 support};}

@item{@link{tablib|table manipulation};}

@item{@link{mathlib|mathematical functions} (sin, log, etc.);}

@item{@link{iolib|input and output};}

@item{@link{oslib|operating system facilities};}

@item{@link{debuglib|debug facilities}.}

}
Except for the basic and the package libraries,
each library provides all its functions as fields of a global table
or as methods of its objects.

To have access to these libraries,
the @N{C host} program should call the @Lid{luaL_openlibs} function,
which opens all standard libraries.
Alternatively,
the
host program can open them individually by using
@Lid{luaL_requiref} to call
@defid{luaopen_base} (for the basic library),
@defid{luaopen_package} (for the package library),

@defid{luaopen_coroutine} (for the coroutine library),
@defid{luaopen_string} (for the string library),
@defid{luaopen_utf8} (for the UTF8 library),
@defid{luaopen_table} (for the table library),
@defid{luaopen_math} (for the mathematical library),
@defid{luaopen_io} (for the I/O library),
@defid{luaopen_os} (for the operating system library),
and @defid{luaopen_debug} (for the debug library).
These functions are declared in @defid{lualib.h}.

@sect2{predefined| @title{Basic Functions}

The basic library provides core functions to Lua.
If you do not include this library in your application,
you should check carefully whether you need to provide
implementations for some of its facilities.

@LibEntry{assert (v [, message])|

Calls @Lid{error} if
the value of its argument @id{v} is false (i.e., @nil or @false);
otherwise,
 returns all its arguments.
In case of error,
@id{message} is the error object;
when absent, it defaults to @St{assertion failed!}

}

@LibEntry{collectgarbage ([opt [, arg]])|

This function is a generic interface to the garbage collector.
It performs different functions according to its first argument, @id{opt}:
@description{

@item{@St{collect}|
performs a full garbage-collection cycle.
This is the default option.
}

@item{@St{stop}|
stops automatic execution of the garbage collector.
The collector will run only when explicitly invoked,
until a call to restart it.
}

@item{@St{restart}|

restarts automatic execution of the garbage collector.
}

@item{@St{count}|
returns the total memory in use by Lua in Kbytes.
The value has a fractional part,
so that it multiplied by 1024
gives the exact number of bytes in use by Lua
(except for overflows).
}

@item{@St{step}|
performs a garbage-collection step.
The step @Q{size} is controlled by @id{arg}.
With a zero value,
the collector will
perform one basic (indivisible) step.
For non-zero values,
the collector will perform as if that amount of memory
(in KBytes) had been allocated by Lua.
Returns @Rw{true} if the step finished a collection cycle.
}

@item{@St{setpause}|
sets @id{arg} as the new value for the @emph{pause} of
the collector @see{GC}.
Returns the previous value for @emph{pause}.
}

@item{@St{setstepmul}|
sets @id{arg} as the new value for the @emph{step multiplier} of
the collector @see{GC}.
Returns the previous value for @emph{step}.
}

@item{@St{isrunning}|
returns a boolean that tells whether the collector is running
(i.e., not stopped).
}

}

}

@LibEntry{dofile ([filename])|
Opens the named file and executes its contents as a Lua chunk.
When called without arguments,
@id{dofile} executes the contents of the standard input (@id{stdin}).

Returns all values returned by the chunk.
In case of errors, @id{dofile} propagates the error
to its caller (that is, @id{dofile} does not run in protected mode).

}

@LibEntry{error
 (message [, level])|
Terminates the last protected function called
and returns @id{message} as the error object.
Function @id{error} never returns.

Usually, @id{error} adds some information about the error position
at the beginning of the message, if the message is a string.
The @id{level} argument specifies how to get the error position.
With @N{level 1} (the default), the error position is where the
@id{error} function was called.
@N{Level 2} points the error to where the function
that called @id{error} was called; and so on.
Passing a @N{level 0} avoids the addition of error position information
to the message.

}

@LibEntry{_G|
A global variable (not a function) that
holds the @x{global environment} @see{globalenv}.
Lua itself does not use this variable;
changing its value does not affect any environment,
nor vice versa.

}

@LibEntry{getmetatable (object)|

If @id{object} does not have a metatable, returns @nil.
Otherwise,
if the object's metatable has a @idx{__metatable}
 field,
returns the associated value.
Otherwise, returns the metatable of the given object.

}

@LibEntry{ipairs (t)|

Returns three values (an iterator function, the table @id{t}, and 0)
so that the construction

@verbatim{
for i,v in ipairs(t) do @rep{body} end
}
will iterate over the key@En{}value pairs
(@T{1,t[1]}), (@T{2,t[2]}), @ldots,
up to the first nil value.

}

@LibEntry{load (chunk [, chunkname [, mode [, env]]])|

Loads a chunk.

If @id{chunk} is a string, the chunk is this string.
If @id{chunk} is a function,
@id{load} calls it repeatedly to get the chunk pieces.
Each call to @id{chunk} must return a string that concatenates
with previous results.
A return of an empty string, @nil, or no value signals the end of the chunk.

If there are no syntactic errors,
returns the compiled chunk as a function;
otherwise, returns @nil plus the error message.

If the resulting function has upvalues,
the first upvalue is set to the value of @id{env},
if that parameter is given,
or
to the value of the @x{global environment}.
Other upvalues are initialized with @nil.
(When you load a main chunk,
the resulting function will always have exactly one upvalue,
the @id{_ENV} variable @see{globalenv}.
However,
when you load a binary chunk created from a function @seeF{string.dump},
the resulting function can have an arbitrary number of upvalues.)
All upvalues are fresh, that is,
they are not shared with any other function.

@id{chunkname} is used as the name of the chunk for error messages
and debug information @see{debugI}.
When absent,
it defaults to @id{chunk}, if @id{chunk} is a string,
or to @St{=(load)} otherwise.

The string @id{mode} controls whether the chunk can be text or binary
(that is, a precompiled chunk).
It may be the string @St{b} (only @x{binary chunk}s),

@St{t} (only text chunks),
or @St{bt} (both binary and text).
The default is @St{bt}.

Lua does not check the consistency of binary chunks.
Maliciously crafted binary chunks can crash
the interpreter.

}

@LibEntry{loadfile
 ([filename [, mode [, env]]])|

Similar to @Lid{load},
but gets the chunk from file @id{filename}
or from the standard input,
if no file name is given.

}

@LibEntry{next (table [, index])|

Allows a program to traverse all fields of a table.
Its first argument is a table and its second argument
is an index in this table.
@id{next} returns the next index of the table
and its associated value.
When called with @nil as its second argument,
@id{next} returns an initial index
and its associated value.
When called with the last index,
or with @nil in an empty table,
@id{next} returns @nil.
If the second argument is absent, then it is interpreted as @nil.
In particular,
you can use @T{next(t)} to check whether a table is empty.

The order in which the indices are enumerated is not specified,
@emph{even for numeric indices}.
(To traverse a table in numerical order,
use a numerical @Rw{for}.)

The behavior of @id{next} is undefined if,
during the traversal,
you assign
 any value to a non-existent field in the table.
You may however modify existing fields.
In particular, you may clear existing fields.

}

@LibEntry{pairs (t)|

If @id{t} has a metamethod @idx{__pairs},
calls it with @id{t} as argument and returns the first three
results from the call.

Otherwise,
returns three values: the @Lid{next} function, the table @id{t}, and @nil,
so that the construction
@verbatim{
for k,v in pairs(t) do @rep{body} end
}
will iterate over all key@En{}value pairs of table @id{t}.

See function @Lid{next} for the caveats of modifying
the table during its traversal.

}

@LibEntry{pcall (f [, arg1, @Cdots])|

Calls function @id{f} with
the given arguments in @def{protected mode}.
This means that any error @N{inside @T{f}} is not propagated;
instead, @id{pcall} catches the error
and returns a status code.
Its first result is the status code (a boolean),
which is true if the call succeeds without errors.
In such case, @id{pcall} also returns all results from the call,
after
 this first result.
In case of any error, @id{pcall} returns @false plus the error message.

}

@LibEntry{print (@Cdots)|
Receives any number of arguments
and prints their values to @id{stdout},
using the @Lid{tostring} function to convert each argument to a string.
@id{print} is not intended for formatted output,
but only as a quick way to show a value,
for instance for debugging.
For complete control over the output,
use @Lid{string.format} and @Lid{io.write}.

}

@LibEntry{rawequal (v1, v2)|
Checks whether @id{v1} is equal to @id{v2},
without invoking the @idx{__eq} metamethod.
Returns a boolean.

}

@LibEntry{rawget (table, index)|
Gets the real value of @T{table[index]},
without invoking the @idx{__index} metamethod.
@id{table} must be a table;
@id{index} may be any value.

}

@LibEntry{rawlen (v)|
Returns the length of the object @id{v},
which must be a table or a string,
without invoking the @idx{__len} metamethod.
Returns an integer.

}

@LibEntry{rawset (table, index, value)|
Sets
 the real value of @T{table[index]} to @id{value},
without invoking the @idx{__newindex} metamethod.
@id{table} must be a table,
@id{index} any value different from @nil and @x{NaN},
and @id{value} any Lua value.

This function returns @id{table}.

}

@LibEntry{select (index, @Cdots)|

If @id{index} is a number,
returns all arguments after argument number @id{index};
a negative number indexes from the end (@num{-1} is the last argument).
Otherwise, @id{index} must be the string @T{"#"},
and @id{select} returns the total number of extra arguments it received.

}

@LibEntry{setmetatable (table, metatable)|

Sets the metatable for the given table.
(To change the metatable of other types from Lua code,
you must use the @link{debuglib|debug library}.)
If @id{metatable} is @nil,
removes the metatable of the given table.
If the original metatable has a @idx{__metatable} field,
raises an error.

This function returns @id{table}.

}

@LibEntry{tonumber (e [, base])|

When called with
 no @id{base},
@id{tonumber} tries to convert its argument to a number.
If the argument is already a number or
a string convertible to a number,
then @id{tonumber} returns this number;
otherwise, it returns @nil.

The conversion of strings can result in integers or floats,
according to the lexical conventions of Lua @see{lexical}.
(The string may have leading and trailing spaces and a sign.)

When called with @id{base},
then @id{e} must be a string to be interpreted as
an integer numeral in that base.
The base may be any integer between 2 and 36, inclusive.
In bases @N{above 10}, the letter @Char{A} (in either upper or lower case)
@N{represents 10}, @Char{B} @N{represents 11}, and so forth,
with @Char{Z} representing 35.
If the string @id{e} is not a valid numeral in the given base,
the function returns @nil.

}

@LibEntry{tostring (v)|
Receives a value of any type and
converts it to a string in a human-readable format.
(For complete control of how numbers are converted,
use @Lid{string.format}.)

If
 the metatable of @id{v} has a @idx{__tostring} field,
then @id{tostring} calls the corresponding value

with @id{v} as argument,
and uses the result of the call as its result.

}

@LibEntry{type (v)|
Returns the type of its only argument, coded as a string.
The possible results of this function are
@St{nil} (a string, not the value @nil),
@St{number},
@St{string},
@St{boolean},
@St{table},
@St{function},
@St{thread},
and @St{userdata}.

}

@LibEntry{_VERSION|

A global variable (not a function) that
holds a string containing the running Lua version.
The current value of this variable is @St{Lua 5.3}.

}

@LibEntry{xpcall (f, msgh [, arg1, @Cdots])|

This function is similar to @Lid{pcall},
except that it sets a new @x{message handler} @id{msgh}.

}

}

@sect2{corolib| @title{Coroutine Manipulation}

This library comprises the operations to manipulate coroutines,
which come inside the table @defid{coroutine}.
See @See{coroutine} for a general description of coroutines.

@LibEntry{coroutine.create
(f)|

Creates a new coroutine, with body @id{f}.
@id{f} must be a function.

Returns this new coroutine,
an object with type @T{"thread"}.

}

@LibEntry{coroutine.isyieldable ()|

Returns true when the running coroutine can yield.

A running coroutine is yieldable if it is not the main thread and
it is not inside a non-yieldable @N{C function}.

}

@LibEntry{coroutine.resume (co [, val1, @Cdots])|

Starts or continues the execution of coroutine @id{co}.
The first time you resume a coroutine,
it starts running its body.
The values @id{val1}, @ldots are passed
as the arguments to the body function.
If the coroutine has yielded,
@id{resume} restarts it;
the values @id{val1}, @ldots are passed
as the results from the yield.

If the coroutine runs without any errors,
@id{resume} returns @true plus any values passed to @id{yield}
(when the coroutine yields) or any values returned by the body function
(when the coroutine terminates).
If there is any error,
@id{resume}
returns @false plus the error message.

}

@LibEntry{coroutine.running ()|

Returns the running coroutine plus a boolean,
true when the running coroutine is the main one.

}

@LibEntry{coroutine.status (co)|

Returns the status of coroutine @id{co}, as a string:
@T{"running"},
if the coroutine is running (that is, it called @id{status});

@T{"suspended"}, if the coroutine is suspended in a call to @id{yield},
or if it has not started running yet;
@T{"normal"} if the coroutine is active but not running
(that is, it has resumed another coroutine);
and @T{"dead"} if the coroutine has finished its body function,
or if it has stopped with an error.

}

@LibEntry{coroutine.wrap (f)|

Creates a new coroutine, with body @id{f}.
@id{f} must be a function.
Returns a function that resumes the coroutine each time it is called.
Any arguments passed to the function behave as the
extra arguments to @id{resume}.
Returns the same values returned by @id{resume},
except the first boolean.
In case of error,
 propagates the error.

}

@LibEntry{coroutine.yield (@Cdots)|

Suspends the execution of the calling coroutine.
Any arguments to @id{yield} are passed as extra results to @id{resume}.

}

}

@sect2{packlib| @title{Modules}

The package library provides basic
facilities for loading modules in Lua.
It exports one function directly in the global environment:
@Lid{require}.
Everything else is exported in a table @defid{package}.

@LibEntry{require (modname)|

Loads the given module.
The function starts by looking into the @Lid{package.loaded} table
to determine whether @id{modname} is already loaded.
If it is, then @id{require} returns the value stored
at @T{package.loaded[modname]}.

Otherwise, it tries to find a @emph{loader} for the module.

To find a loader,
@id{require} is guided by the @Lid{package.searchers} sequence.
By changing this sequence,
we can change how @id{require} looks for a module.
The following explanation is based on the default configuration
for @Lid{package.searchers}.

First
@id{require} queries @T{package.preload[modname]}.
If it has a value,
this value (which must be a function) is the loader.
Otherwise @id{require} searches for a Lua loader using the
path stored in @Lid{package.path}.
If that also fails, it searches for a @N{C loader} using the
path stored in @Lid{package.cpath}.
If that also fails,
it tries an @emph{all-in-one} loader @seeF{package.searchers}.

Once a loader is found,
@id{require} calls the loader with two arguments:
@id{modname} and an extra value dependent on how it got the loader.
(If the loader came from a file,
this extra value is the file name.)
If the loader returns any non-nil value,
@id{require} assigns the returned value to @T{package.loaded[modname]}.
If the loader does not return a non-nil value and
has not assigned any value to @T{package.loaded[modname]},
then @id{require} assigns @Rw{true} to this entry.
In any case, @id{require} returns the
final value of @T{package.loaded[modname]}.

If there is any error
loading or running the module,
or if it cannot find any loader for the module,
then @id{require} raises an error.

}

@LibEntry{package.config|

A string describing some compile-time configurations for packages.
This string is a sequence of lines:
@itemize{

@item{The first line is the @x{directory separator} string.
Default is @Char{\} for @x{Windows} and @Char{/} for all other systems.}

@item{The second line is the character that separates templates in a path.
Default is @Char{;}.}

@item{The third line is the string that marks the
substitution points in a template.
Default is @Char{?}.}

@item{The fourth line is a string that, in a path in @x{Windows},
is replaced by the executable's directory.
Default is @Char{!}.}

@item{The fifth line is a mark to ignore all text after it
when building the @id{luaopen_} function name.
Default is @Char{-}.}

}

}

@LibEntry{package.cpath|

The path used by @Lid{require} to search for a @N{C loader}.

Lua initializes the @N{C path} @Lid{package.cpath}
 in the same way
it initializes the Lua path @Lid{package.path},
using the environment variable @defid{LUA_CPATH_5_3},
or the environment variable @defid{LUA_CPATH},
or a default path defined in @id{luaconf.h}.

}

@LibEntry{package.loaded|

A table used by @Lid{require} to control which
modules are already loaded.
When you require a module @id{modname} and
@T{package.loaded[modname]} is not false,
@Lid{require} simply returns the value stored there.

This variable is only a reference to the real table;
assignments to this variable do not change the
table used by @Lid{require}.

}

@LibEntry{package.loadlib (libname, funcname)|

Dynamically links the host program with the @N{C library} @id{libname}.

If @id{funcname} is @St{*},
then it only links with the library,
making the symbols exported by the library
available to other dynamically linked libraries.
Otherwise,
it looks for a function @id{funcname} inside the library
and returns this function as a @N{C function}.
So, @id{funcname}
must follow the @Lid{lua_CFunction} prototype
@seeC{lua_CFunction}.

This is a low-level function.
It completely bypasses the package and module system.
Unlike @Lid{require},
it does not perform any path searching and
does not automatically adds extensions.
@id{libname} must be the complete file name of the @N{C library},
including if necessary a path and an extension.
@id{funcname} must be the exact name exported by the @N{C library}
(which may depend on the @N{C compiler} and linker used).

This function is not supported by @N{Standard C}.
As such, it is only available on some platforms
(Windows, Linux, Mac OS X, Solaris, BSD,
plus other Unix systems that support the @id{dlfcn} standard).

}

@LibEntry{package.path|

The path used by @Lid{require} to search for a Lua loader.

At start-up, Lua initializes this variable with
the value of the environment variable @defid{LUA_PATH_5_3} or
the environment variable @defid{LUA_PATH} or
with a default path defined in @id{luaconf.h},
if those
environment variables are not defined.
Any @St{;;} in the value of the environment variable
is replaced by the default path.

}

@LibEntry{package.preload|

A table to store loaders for specific modules
@seeF{require}.

This variable is only a reference to the real table;
assignments to this variable do not change the
table used by @Lid{require}.

}

@LibEntry{package.searchers|

A table used by @Lid{require} to control how to load modules.

Each entry in this table is a @def{searcher function}.
When looking for a module,
@Lid{require} calls each of these searchers in ascending order,
with the module name (the argument given to @Lid{require}) as its
sole parameter.
The function can return another function (the module @def{loader})
plus an extra value that will be passed to that loader,
or a string explaining why it did not find that module
(or @nil if it has nothing to say).

Lua initializes this table with four searcher functions.

The first searcher simply looks for a loader in
 the
@Lid{package.preload} table.

The second searcher looks for a loader as a Lua library,
using the path stored at @Lid{package.path}.
The search is done as described in function @Lid{package.searchpath}.

The third searcher looks for a loader as a @N{C library},
using the path given by the variable @Lid{package.cpath}.
Again,
the search is done as described in function @Lid{package.searchpath}.
For instance,
if the @N{C path} is the string
@verbatim{
"./?.so;./?.dll;/usr/local/?/init.so"
}
the searcher for module @id{foo}
will try to open the files @T{./foo.so}, @T{./foo.dll},
and @T{/usr/local/foo/init.so}, in that order.
Once it finds a @N{C library},
this searcher first uses a dynamic link facility to link the
application with the library.

Then it tries to find a @N{C function} inside the library to
be used as the loader.
The name of this @N{C function} is the string @St{luaopen_}
concatenated with a copy of the module name where each dot
is replaced by an underscore.
Moreover, if
 the module name has a hyphen,
its suffix after (and including) the first hyphen is removed.
For instance, if the module name is @id{a.b.c-v2.1},
the function name will be @id{luaopen_a_b_c}.

The fourth searcher tries an @def{all-in-one loader}.
It searches the @N{C path} for a library for
the root name of the given module.
For instance, when requiring @id{a.b.c},
it will search for a @N{C library} for @id{a}.
If found, it looks into it for an open function for
the submodule;
in our example, that would be @id{luaopen_a_b_c}.
With this facility, a package can pack several @N{C submodules}
into one single library,
with each submodule keeping its original open function.

All searchers except the first one (preload) return as the extra value
the file name where the module was found,
as returned by @Lid{package.searchpath}.
The first searcher returns no extra value.

}

@LibEntry{package.searchpath (name, path [, sep [, rep]])|

Searches for the given @id{name} in the given @id{path}.

A path
 is a string containing a sequence of
@emph{templates} separated by semicolons.
For each template,
the function replaces each interrogation mark (if any)
in the template with a copy of @id{name}
wherein all occurrences of @id{sep}
(a dot, by default)
were replaced by @id{rep}
(the system's directory separator, by default),
and then tries to open the resulting file name.

For instance, if the path is the string
@verbatim{

"./?.lua;./?.lc;/usr/local/?/init.lua"
}
the search for the name @id{foo.a}
will try to open the files
@T{./foo/a.lua}, @T{./foo/a.lc}, and
@T{/usr/local/foo/a/init.lua}, in that order.

Returns the resulting name of the first file that it can
open in read mode (after closing the file),
or @nil plus an error message if none succeeds.
(This error message lists all file names it tried to open.)

}

}

@sect2{strlib| @title{String Manipulation}

This library provides generic functions for string manipulation,
such as finding and extracting substrings, and pattern matching.
When
 indexing a string in Lua, the first character is at @N{position 1}
(not @N{at 0}, as in C).
Indices are allowed to be negative and are interpreted as indexing backwards,
from the end of the string.
Thus, the last character is at position @num{-1}, and so on.

The string library provides all its functions inside the table
@defid{string}.
It also sets a @x{metatable for strings}
where the @idx{__index} field points to the @id{string} table.
Therefore, you can use the string functions in object-oriented style.
For instance, @T{string.byte(s,i)}
can be written as @T{s:byte(i)}.

The string library assumes one-byte character encodings.

@LibEntry{string.byte (s [, i [, j]])|
Returns the internal numeric codes of the characters @T{s[i]},
@T{s[i+1]}, @ldots, @T{s[j]}.
The default value for @id{i} @N{is 1};
the default value for @id{j} @N{is @id{i}}.
These indices are corrected
following the same rules of function @Lid{string.sub}.

Numeric codes are not necessarily portable across

platforms.

}

@LibEntry{string.char (@Cdots)|
Receives zero or more integers.
Returns a string with length equal to the number of arguments,
in which each character has the internal numeric code equal
to its corresponding argument.

Numeric codes are not necessarily portable across platforms.

}

@LibEntry{string.dump (function [, strip])|

Returns a string containing a binary representation
(a @emph{binary chunk})
of the given function,
so that a later @Lid{load} on this string returns
a copy of the function (but with new upvalues).
If @id{strip} is a true value,
the binary representation may not include all debug information
about the function,
to save space.

Functions with upvalues have only their number of upvalues saved.
When (re)loaded,
those upvalues receive fresh instances containing @nil.
(You can use the debug library to serialize
and reload the upvalues of a function
in a way adequate to your needs.)

}

@LibEntry{string.find (s, pattern [, init [, plain]])|

Looks for the
first match of
@id{pattern} @see{pm} in the string @id{s}.
If it finds a match, then @id{find} returns the indices @N{of @T{s}}
where this occurrence starts and ends;
otherwise, it returns @nil.
A third, optional numeric argument @id{init} specifies
where to start the search;
its default value @N{is 1} and can be negative.
A value of @true as a fourth, optional argument @id{plain}
turns off the pattern matching facilities,

so the function does a plain @Q{find substring} operation,
with no characters in @id{pattern} being considered magic.
Note that if @id{plain} is given, then @id{init} must be given as well.

If the pattern has captures,
then in a successful match
the captured values are also returned,
after the two indices.

}

@LibEntry{string.format (formatstring, @Cdots)|

Returns a formatted version of its variable number of arguments
following the description given in its first argument (which must be a string).
The format string follows the same rules as the @ANSI{sprintf}.
The
 only differences are that the options/modifiers
@T{*}, @id{h}, @id{L}, @id{l}, @id{n},
and @id{p} are not supported
and that there is an extra option, @id{q}.

The @id{q} option formats a string between double quotes,
using escape sequences when necessary to ensure that
it can safely be read back by the Lua interpreter.
For instance, the call
@verbatim{
string.format('%q', 'a string with "quotes" and \n new line')
}
may produce the string:
@verbatim{
"a string with \"quotes\" and \
new line"
}

Options
@id{A}, @id{a}, @id{E}, @id{e}, @id{f},
@id{G}, and @id{g} all expect a number as argument.
Options @id{c}, @id{d},
@id{i}, @id{o}, @id{u}, @id{X}, and @id{x}
expect an integer.
When Lua is compiled with a C89 compiler,
options @id{A} and @id{a} (hexadecimal floats)
do not support any modifier (flags, width, length).

Option @id{s} expects a string;
if its argument is not a string,
it is converted to one following the same rules of @Lid{tostring}.

If the option has any modifier (flags,
width, length),
the string argument should not contain @x{embedded zeros}.

}

@LibEntry{string.gmatch (s, pattern)|
Returns an iterator function that,
each time it is called,
returns the next captures from @id{pattern} @see{pm}
over the string @id{s}.
If @id{pattern} specifies no captures,
then the whole match is produced in each call.

As an example, the following loop
will iterate over all the words from string @id{s},
printing one per line:
@verbatim{
s = "hello world from Lua"
for w in string.gmatch(s, "%a+") do
print(w)
end
}
The next example collects all pairs @T{key=value} from the
given string into a table:
@verbatim{
t = {}
s = "from=world, to=Lua"
for k, v in string.gmatch(s, "(%w+)=(%w+)") do
t[k] = v
end
}

For this function, a caret @Char{^} at the start of a pattern does not
work as an anchor, as this would prevent the iteration.

}

@LibEntry{string.gsub (s, pattern, repl [, n])|
Returns a copy of @id{s}
in which all (or the first @id{n}, if given)
occurrences of
the @id{pattern} @see{pm} have been
replaced by a replacement string specified by @id{repl},
which can be a string, a table, or a function.
@id{gsub} also returns, as its second value,
the total number of matches that occurred.
The name @id{gsub} comes from @emph{Global SUBstitution}.

If @id{repl} is a string, then its value is used for replacement.
The @N{character @T{%}} works as an escape character:
any sequence in @id{repl} of the form @T{%@rep{d}},
with @rep{d} between 1 and 9,
stands for the value of the @rep{d}-th captured substring.
The sequence @T{%0} stands for the whole match.
The sequence @T{%%} stands for a @N{single @T{%}}.

If @id{repl} is a table, then the table is queried for every match,
using the first capture as the key.

If @id{repl} is a function, then this function is called every time a
match occurs, with all captured substrings passed as arguments,
in order.

In any case,
if the pattern specifies no captures,
then it behaves as if the whole pattern was inside
 a capture.

If the value returned by the table query or by the function call
is a string or a number,
then it is used as the replacement string;
otherwise, if it is @Rw{false} or @nil,
then there is no replacement
(that is, the original match is kept in the string).

Here are some examples:
@verbatim{
```
x = string.gsub("hello world", "(%w+)", "%1 %1")
--> x="hello hello world world"

x = string.gsub("hello world", "%w+", "%0 %0", 1)
--> x="hello hello world"

x = string.gsub("hello world from Lua", "(%w+)%s*(%w+)", "%2 %1")
--> x="world hello Lua from"

x = string.gsub("home = $HOME, user = $USER", "%$(%w+)", os.getenv)
--> x="home = /home/roberto, user = roberto"

x = string.gsub("4+5 = $return 4+5$", "%$(.-)%$", function (s)
     return load(s)()
   end)
--> x="4+5 = 9"

local t = {name="lua", version="5.3"}
```

```
x = string.gsub("$name-$version.tar.gz", "%$(%w+)", t)
--> x="lua-5.3.tar.gz"
}

}

@LibEntry{string.len (s)|
Receives a string and returns its length.
The empty string @T{""} has
 length 0.
Embedded zeros are counted,
so @T{"a\000bc\000"} has length 5.

}

@LibEntry{string.lower (s)|
Receives a string and returns a copy of this string with all
uppercase letters changed to lowercase.
All other characters are left unchanged.
The definition of what an uppercase letter is depends on the current locale.

}

@LibEntry{string.match (s, pattern [, init])|
Looks for the first @emph{match} of
@id{pattern} @see{pm} in the string @id{s}.
If it finds one, then @id{match} returns
the captures from the pattern;
otherwise it returns @nil.
If @id{pattern} specifies no captures,
then the whole match is returned.
A third, optional numeric argument @id{init} specifies
where to start the search;
its default value @N{is 1} and can be negative.

}

@LibEntry{string.pack (fmt, v1, v2, @Cdots)|

Returns a binary string containing the values @id{v1}, @id{v2}, etc.
packed (that is, serialized in binary form)
according to the format string @id{fmt} @see{pack}.

}

@LibEntry{string.packsize
 (fmt)|
```

Returns the size of a string resulting from @Lid{string.pack}
with the given format.
The format string cannot have the variable-length options
@Char{s} or @Char{z} @see{pack}.

}

@LibEntry{string.rep (s, n [, sep])|
Returns a string that is the concatenation of @id{n} copies of
the string @id{s} separated by the string @id{sep}.
The default value for @id{sep} is the empty string
(that is, no separator).
Returns the empty string if @id{n} is not positive.

(Note that it is very easy to exhaust the memory of your machine
with a single call to this function.)

}

@LibEntry{string.reverse (s)|
Returns a string that is the string @id{s} reversed.

}

@LibEntry{string.sub (s, i [, j])|
Returns the substring of @id{s} that
starts at @id{i} and continues until @id{j};
@id{i} and @id{j} can be negative.
If @id{j} is absent, then it is assumed to be equal to @num{-1}
(which is the same as the string length).
In particular,
the call @T{string.sub(s,1,j)} returns a prefix of @id{s}
with
 length @id{j},
and @T{string.sub(s, -i)} (for a positive @id{i})
returns a suffix of @id{s}
with length @id{i}.

If, after the translation of negative indices,
@id{i} is less than 1,
it is corrected to 1.
If @id{j} is greater than the string length,
it is corrected to that length.
If, after these corrections,
@id{i} is greater than @id{j},
the function returns the empty string.

}

@LibEntry{string.unpack (fmt, s [, pos])|

Returns the values packed in string @id{s} @seeF{string.pack}
according to the format string @id{fmt} @see{pack}.
An optional @id{pos} marks where
to start reading in @id{s} (default is 1).
After the read values,
this function also returns the index of the first unread byte in @id{s}.

}

@LibEntry{string.upper (s)|
Receives a string and returns a copy of this string with all
lowercase letters changed to uppercase.
All other characters are left unchanged.
The definition of what a lowercase letter is depends on the current locale.

}

@sect3{pm| @title{Patterns}

Patterns
 in Lua are described by regular strings,
which are interpreted as patterns by the pattern-matching functions
@Lid{string.find},
@Lid{string.gmatch},
@Lid{string.gsub},
and @Lid{string.match}.
This section describes the syntax and the meaning
(that is, what they match) of these strings.

@sect4{@title{Character Class:}
A @def{character class} is used to represent a set of characters.
The following combinations are allowed in describing a character class:
@description{

@item{@rep{x}|
(where @rep{x} is not one of the @emphx{magic characters}
@T{^$()%.[]*+-?})
represents the character @emph{x} itself.
}

@item{@T{.}| (a dot) represents all characters.}

@item{@T{%a}| represents all letters.}

@item{@T{%c}| represents all control characters.}

@item{@T{%d}| represents all digits.}

@item{@T{%g}| represents all printable characters except space.}

@item{@T{%l}| represents all lowercase letters.}

@item{@T{%p}| represents all punctuation characters.}

@item{@T{%s}| represents all space
characters.}

@item{@T{%u}| represents all uppercase letters.}

@item{@T{%w}| represents all alphanumeric characters.}

@item{@T{%x}| represents all hexadecimal digits.}

@item{@T{%@rep{x}}| (where @rep{x} is any non-alphanumeric character)
represents the character @rep{x}.
This is the standard way to escape the magic characters.
Any non-alphanumeric character
(including all punctuation characters, even the non-magical)
can be preceded by a @Char{%}
when used to represent itself in a pattern.
}

@item{@T{[@rep{set}]}|
represents the class which is the union of all
characters in @rep{set}.
A range of characters can be specified by
separating the end characters of the range,
in ascending order, with a @Char{-}.
All classes @T{%}@emph{x} described above can also be used as
components in @rep{set}.
All other characters in @rep{set} represent themselves.
For example, @T{[%w_]} (or @T{[_%w]})
represents all alphanumeric characters plus the underscore,
@T{[0-7]} represents the octal digits,
and
@T{[0-7%l%-]} represents the octal digits plus
the lowercase letters plus the @Char{-} character.

You can put a closing square bracket in a set
by positioning it as the first character in the set.
You can put a hyphen in a set
by positioning it as the first or the last character in the set.

(You can also use an escape for both cases.)

The interaction between ranges and classes is not defined.
Therefore, patterns like @T{[%a-z]} or @T{[a-%%]}
have no meaning.
}

@item{@T{[^@rep{set}]}|
represents the complement of @rep{set},
where @rep{set} is interpreted as above.
}

}
For all classes represented by single letters (@T{%a}, @T{%c}, etc.),
the corresponding uppercase letter represents the complement of the class.
For instance, @T{%S} represents all non-space characters.

The definitions of letter, space, and other character groups
depend on the current locale.
In particular, the class @T{[a-z]} may not be equivalent to @T{%l}.

}

@sect4{@title{Pattern Item:}
A @def{pattern item}
 can be
@itemize{

@item{
a single character class,
which matches any single character in the class;
}

@item{
a single character class followed by @Char{*},
which matches zero or more repetitions of characters in the class.
These repetition items will always match the longest possible sequence;
}

@item{
a single character class followed by @Char{+},
which matches one or more repetitions of characters in the class.
These repetition items will always match the longest possible sequence;
}

@item{
a single character class followed by @Char{-},
which also matches zero or more repetitions of characters in the class.

Unlike @Char{*},
these repetition items will always match the shortest possible sequence;
}

@item{
a single character class followed by @Char{?},
which matches zero or one occurrence of a character in the class.
It always matches one occurrence if possible;
}

@item{
@T{%@rep{n}}, for @rep{n} between 1 and 9;
such item matches a substring equal to the @rep{n}-th captured string
(see
 below);
}

@item{
@T{%b@rep{xy}}, where @rep{x} and @rep{y} are two distinct characters;
such item matches strings that start @N{with @rep{x}}, end @N{with @rep{y}},
and where the @rep{x} and @rep{y} are @emph{balanced}.
This means that, if one reads the string from left to right,
counting @M{+1} for an @rep{x} and @M{-1} for a @rep{y},
the ending @rep{y} is the first @rep{y} where the count reaches 0.
For instance, the item @T{%b()} matches expressions with
balanced parentheses.
}

@item{
@T{%f[@rep{set}]}, a @def{frontier pattern};
such item matches an empty string at any position such that
the next character belongs to @rep{set}
and the previous character does not belong to @rep{set}.
The set @rep{set} is interpreted as previously described.
The beginning and the end of the subject are handled as if
they were the character @Char{\0}.
}

}

}

@sect4{@title{Pattern:}
A @def{pattern} is a sequence of pattern items.
A caret @Char{^} at the beginning of a pattern anchors the match
 at the
beginning of the subject string.
A @Char{$} at the end of a pattern anchors the match at the

end of the subject string.
At other positions,
@Char{^} and @Char{$} have no special meaning and represent themselves.

}

@sect4{@title{Captures:}
A pattern can contain sub-patterns enclosed in parentheses;
they describe @def{captures}.
When a match succeeds, the substrings of the subject string
that match captures are stored (@emph{captured}) for future use.
Captures are numbered according to their left parentheses.
For instance, in the pattern @T{"(a*(.)%w(%s*))"},
the part of the string matching @T{"a*(.)%w(%s*)"} is
stored as the first capture (and therefore has @N{number 1});
the character matching @St{.} is captured with @N{number 2},
and the part matching @St{%s*} has @N{number 3}.

As a special case, the empty capture @T{()} captures
the current string position (a number).
For instance, if we apply the pattern @T{"()aa()"} on the
string @T{"flaaap"}, there will be two captures:
 @N{3 and 5}.

}

}

@sect3{pack| @title{Format Strings for Pack and Unpack}

The first argument to @Lid{string.pack},
@Lid{string.packsize}, and @Lid{string.unpack}
is a format string,
which describes the layout of the structure being created or read.

A format string is a sequence of conversion options.
The conversion options are as follows:
@description{
@item{@T{<}|sets little endian}
@item{@T{>}|sets big endian}
@item{@T{=}|sets native endian}
@item{@T{![@rep{n}]}|sets maximum alignment to @id{n}
(default is native alignment)}
@item{@T{b}|a signed byte (@id{char})}
@item{@T{B}|an unsigned byte (@id{char})}
@item{@T{h}|a signed @id{short} (native size)}
@item{@T{H}|an unsigned @id{short} (native size)}

@item{@T{l}|a signed @id{long} (native size)}
@item{@T{L}|an unsigned @id{long} (native size)}
@item{@T{j}|a @id{lua_Integer}}
@item{@T{J}|a @id{lua_Unsigned}}
@item{@T{T}|a @id{size_t} (native size)}
@item{@T{i[@rep{n}]}|a signed @id{int} with @id{n} bytes
(default is native size)}
@item{@T{I[@rep{n}]}|an
unsigned @id{int} with @id{n} bytes
(default is native size)}
@item{@T{f}|a @id{float} (native size)}
@item{@T{d}|a @id{double} (native size)}
@item{@T{n}|a @id{lua_Number}}
@item{@T{c@rep{n}}|a fixed-sized string with @id{n} bytes}
@item{@T{z}|a zero-terminated string}
@item{@T{s[@emph{n}]}|a string preceded by its length
coded as an unsigned integer with @id{n} bytes
(default is a @id{size_t})}
@item{@T{x}|one byte of padding}
@item{@T{X@rep{op}}|an empty item that aligns
according to option @id{op}
(which is otherwise ignored)}
@item{@Char{ }|(empty space) ignored}
}
(A @St{[@rep{n}]} means an optional integral numeral.)
Except for padding, spaces, and configurations
(options @St{xX <=>!}),
each option corresponds to an argument (in @Lid{string.pack})
or a result (in @Lid{string.unpack}).

For options @St{!@rep{n}}, @St{s@rep{n}}, @St{i@rep{n}}, and @St{I@rep{n}},
@id{n} can be any integer between 1 and 16.
All integral options check overflows;
@Lid{string.pack}
checks whether the given value fits in the given size;
@Lid{string.unpack} checks whether the read value fits in a Lua integer.

Any format string starts as if prefixed by @St{!1=},
that is,
with maximum alignment of 1 (no alignment)
and native endianness.

Alignment works as follows:
For each option,
the format gets extra padding until the data starts
at an offset that is a multiple of the minimum between the
option size and the maximum alignment;
this minimum must be a power of 2.

Options @St{c} and @St{z} are not aligned;
option @St{s} follows the alignment of its starting integer.

All padding is filled with zeros by @Lid{string.pack}
(and ignored by @Lid{string.unpack}).

}

}

@sect2{utf8| @title{UTF-8 Support}

This library provides basic support for @x{UTF-8} encoding.
It provides all its functions inside the table @defid{utf8}.
This library does not provide any support for @x{Unicode} other
than the handling of the encoding.
Any operation that needs the meaning of a character,
such
 as character classification, is outside its scope.

Unless stated otherwise,
all functions that expect a byte position as a parameter
assume that the given position is either the start of a byte sequence
or one plus the length of the subject string.
As in the string library,
negative indices count from the end of the string.

@LibEntry{utf8.char (@Cdots)|
Receives zero or more integers,
converts each one to its corresponding UTF-8 byte sequence
and returns a string with the concatenation of all these sequences.

}

@LibEntry{utf8.charpattern|
The pattern (a string, not a function) @St{[\0-\x7F\xC2-\xF4][\x80-\xBF]*}
@see{pm},
which matches exactly one UTF-8 byte sequence,
assuming that the subject is a valid UTF-8 string.

}

@LibEntry{utf8.codes (s)|

Returns values so that the construction
@verbatim{
for p, c in utf8.codes(s) do @rep{body} end

}
will iterate over all characters in string @id{s},
with @id{p} being the position (in bytes) and @id{c} the code point
of each
 character.
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.codepoint (s [, i [, j]])|
Returns the codepoints (as integers) from all characters in @id{s}
that start between byte position @id{i} and @id{j} (both included).
The default for @id{i} is 1 and for @id{j} is @id{i}.
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.len (s [, i [, j]])|
Returns the number of UTF-8 characters in string @id{s}
that start between positions @id{i} and @id{j} (both inclusive).
The default for @id{i} is @num{1} and for @id{j} is @num{-1}.
If it finds any invalid byte sequence,
returns a false value plus the position of the first invalid byte.

}

@LibEntry{utf8.offset (s, n [, i])|
Returns the position (in bytes) where the encoding of the
@id{n}-th character of @id{s}
(counting from position @id{i}) starts.
A negative @id{n} gets characters before position @id{i}.
The default for @id{i} is 1 when @id{n} is non-negative
and @T{#s + 1} otherwise,
so
 that @T{utf8.offset(s, -n)} gets the offset of the
@id{n}-th character from the end of the string.
If the specified character is neither in the subject
nor right after its end,
the function returns @nil.

As a special case,
when @id{n} is 0 the function returns the start of the encoding
of the character that contains the @id{i}-th byte of @id{s}.

This function assumes that @id{s} is a valid UTF-8 string.

}

}

@sect2{tablib| @title{Table Manipulation}

This library provides generic functions for table manipulation.
It provides all its functions inside the table @defid{table}.

Remember that, whenever an operation needs the length of a table,
all caveats about the length operator apply @see{len-op}.
All functions ignore non-numeric keys
in the tables given as arguments.

@LibEntry{table.concat (list [, sep [, i [, j]]])|

Given a list where all elements are strings or numbers,
returns the string @T{list[i]..sep..list[i+1] @Cdots sep..list[j]}.
The default value for @id{sep} is the
 empty string,
the default for @id{i} is 1,
and the default for @id{j} is @T{#list}.
If @id{i} is greater than @id{j}, returns the empty string.

}

@LibEntry{table.insert (list, [pos,] value)|

Inserts element @id{value} at position @id{pos} in @id{list},
shifting up the elements
@T{list[pos], list[pos+1], @Cdots, list[#list]}.
The default value for @id{pos} is @T{#list+1},
so that a call @T{table.insert(t,x)} inserts @id{x} at the end
of list @id{t}.

}

@LibEntry{table.move (a1, f, e, t [,a2])|

Moves elements from table @id{a1} to table @id{a2},
performing the equivalent to the following
multiple assignment:
@T{a2[t],@Cdots = a1[f],@Cdots,a1[e]}.
The default for @id{a2} is @id{a1}.
The destination range can overlap with the source range.
The number of elements to be moved must fit in a Lua integer.

Returns the destination table @id{a2}.

}

@LibEntry{table.pack (@Cdots)|

Returns a new table with all arguments stored into keys 1, 2, etc.
and with a field @St{n} with the total number
of arguments.
Note that the resulting table may not be a sequence.

}

@LibEntry{table.remove (list [, pos])|

Removes from @id{list} the element at position @id{pos},
returning the value of the removed element.
When @id{pos} is an integer between 1 and @T{#list},
it shifts down the elements
@T{list[pos+1], list[pos+2], @Cdots, list[#list]}
and erases element @T{list[#list]};
The index @id{pos} can also be 0 when @T{#list} is 0,
or @T{#list + 1};
in those cases, the function erases the element @T{list[pos]}.

The default value for @id{pos} is @T{#list},
so that a call @T{table.remove(l)} removes the last element
of list @id{l}.

}

@LibEntry{table.sort (list [, comp])|

Sorts list elements in a given order, @emph{in-place},
from @T{list[1]} to @T{list[#list]}.
If @id{comp} is given,
then it must be a function that receives two list elements
and returns true when the first element must come
before the second in the final order
(so that, after the sort,
@T{i < j} implies @T{not comp(list[j],list[i])}).
If
@id{comp} is not given,
then the standard Lua operator @T{<} is used instead.

Note that the @id{comp} function must define
a strict partial order over the elements in the list;
that is, it must be asymmetric and transitive.
Otherwise, no valid sort may be possible.

The sort algorithm is not stable:
elements considered equal by the given order
may have their relative positions changed by the sort.

}

@LibEntry{table.unpack (list [, i [, j]])|

Returns the elements from the given list.
This function is equivalent to
@verbatim{
return list[i], list[i+1], @Cdots, list[j]
}
By default, @id{i} @N{is 1} and @id{j} is @T{#list}.

}

}

@sect2{mathlib| @title{Mathematical Functions}

This library provides basic mathematical functions.
It provides all its functions and constants inside the table @defid{math}.
Functions with the annotation @St{integer/float} give
integer results for integer arguments
and float results for float (or mixed) arguments.
Rounding functions
(@Lid{math.ceil},
 @Lid{math.floor}, and @Lid{math.modf})
return an integer when the result fits in the range of an integer,
or a float otherwise.

@LibEntry{math.abs (x)|

Returns the absolute value of @id{x}. (integer/float)

}

@LibEntry{math.acos (x)|

Returns the arc cosine of @id{x} (in radians).

}

@LibEntry{math.asin (x)|

Returns the arc sine of @id{x} (in radians).

}

@LibEntry{math.atan (y [, x])|

@index{atan2}
Returns the arc tangent of @T{y/x} (in radians),
but uses the signs of both arguments to find the
quadrant of the result.
(It also handles correctly the case of @id{x} being zero.)

The default value for @id{x} is 1,
so that the call @T{math.atan(y)}
returns the arc tangent of @id{y}.

}

@LibEntry{math.ceil (x)|

Returns the smallest integral value larger than or equal to @id{x}.

}

@LibEntry{math.cos (x)|

Returns the cosine of @id{x} (assumed to be in radians).

}

@LibEntry{math.deg (x)|

Converts the angle @id{x} from radians to degrees.

}

@LibEntry{math.exp
(x)|

Returns the value @M{e@sp{x}}
(where @id{e} is the base of natural logarithms).

}

@LibEntry{math.floor (x)|

Returns the largest integral value smaller than or equal to @id{x}.

}

@LibEntry{math.fmod (x, y)|

Returns the remainder of the division of @id{x} by @id{y}
that rounds the quotient towards zero. (integer/float)

}

@LibEntry{math.huge|

The float value @idx{HUGE_VAL},
a value larger than any other numeric value.

}

@LibEntry{math.log (x [, base])|

Returns the logarithm of @id{x} in the given base.
The default for @id{base} is @M{e}
(so that the function returns the natural logarithm of @id{x}).

}

@LibEntry{math.max (x, @Cdots)|

Returns the argument with the maximum value,
according to the Lua operator @T{<}. (integer/float)

}

@LibEntry{math.maxinteger|
An integer with the maximum value for an integer.

}

@LibEntry{math.min (x, @Cdots)|

Returns the argument with the minimum value,
according to the Lua operator @T{<}. (integer/float)

}

@LibEntry{math.mininteger|
An
integer with the minimum value for an integer.

}

@LibEntry{math.modf (x)|

Returns the integral part of @id{x} and the fractional part of @id{x}.
Its second result is always a float.

}

@LibEntry{math.pi|

The value of @M{@pi}.

}

@LibEntry{math.rad (x)|

Converts the angle @id{x} from degrees to radians.

}

@LibEntry{math.random ([m [, n]])|

When called without arguments,
returns a pseudo-random float with uniform distribution
in the range @C{(} @M{[0,1)}. @C{]}
When called with two integers @id{m} and @id{n},
@id{math.random} returns a pseudo-random integer
with uniform distribution in the range @M{[m, n]}.
(The value @M{n-m} cannot be negative and must fit in a Lua integer.)
The call @T{math.random(n)} is equivalent to @T{math.random(1,n)}.

This function is an interface to the underling
pseudo-random generator function provided by C.

}

@LibEntry{math.randomseed (x)|

Sets @id{x} as the @Q{seed}
for the pseudo-random generator:
equal seeds produce equal sequences of
 numbers.

}

@LibEntry{math.sin (x)|

Returns the sine of @id{x} (assumed to be in radians).

}

@LibEntry{math.sqrt (x)|

Returns the square root of @id{x}.
(You can also use the expression @T{x^0.5} to compute this value.)

}

@LibEntry{math.tan (x)|

Returns the tangent of @id{x} (assumed to be in radians).

}

@LibEntry{math.tointeger (x)|

If the value @id{x} is convertible to an integer,
returns that integer.
Otherwise, returns @nil.

}

@LibEntry{math.type (x)|

Returns @St{integer} if @id{x} is an integer,
@St{float} if it is a float,
or @nil if @id{x} is not a number.

}

@LibEntry{math.ult (m, n)|

Returns a boolean,
true if and only if integer @id{m} is below integer @id{n} when
they are compared as @x{unsigned integers}.

}

}

@sect2{iolib| @title{Input and Output Facilities}

The I/O library provides two different styles for file manipulation.
The first one uses implicit file handles;
that is, there are operations to set a default input file and a
default output file,
and

all input/output operations are over these default files.
The second style uses explicit file handles.

When using implicit file handles,
all operations are supplied by table @defid{io}.
When using explicit file handles,
the operation @Lid{io.open} returns a file handle
and then all operations are supplied as methods of the file handle.

The table @id{io} also provides
three predefined file handles with their usual meanings from C:
@defid{io.stdin}, @defid{io.stdout}, and @defid{io.stderr}.
The I/O library never closes these files.

Unless otherwise stated,
all I/O functions return @nil on failure
(plus an error message as a second result and
a system-dependent error code as a third result)
and some value different from @nil on success.
In non-POSIX systems,
the computation of the error message and error code
in case of errors
may be not @x{thread safe},
because they rely on the global C variable @id{errno}.

@LibEntry{io.close ([file])|

Equivalent to @T{file:close()}.
Without a @id{file},
closes the default output file.

}

@LibEntry{io.flush ()|

Equivalent to @T{io.output():flush()}.

}

@LibEntry{io.input ([file])|

When called with a file name, it opens the named file (in text mode),
and sets its handle as the default input file.
When called with a file handle,
it simply sets this file handle as the default input file.
When called without arguments,
it returns the current default input file.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{io.lines ([filename, @Cdots])|

Opens the given file name in read mode
and returns an iterator function that
works like @T{file:lines(@Cdots)} over the opened file.
When the iterator function detects the end of file,
it returns no values (to finish the loop) and automatically closes the file.

The call @T{io.lines()} (with no file name) is equivalent
to @T{io.input():lines("*l")};
that is, it iterates over the lines of the default input file.
In this case, the iterator does
not close the file when the loop ends.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{io.open (filename [, mode])|

This function opens a file,
in the mode specified in the string @id{mode}.
In case of success,
it returns a new file handle.

The @id{mode} string can be any of the following:
@description{
@item{@St{r}| read mode (the default);}
@item{@St{w}| write mode;}
@item{@St{a}| append mode;}
@item{@St{r+}| update mode, all previous data is preserved;}
@item{@St{w+}| update mode, all previous data is erased;}
@item{@St{a+}| append update mode, previous data is preserved,
writing is only allowed at the end of file.}
}
The @id{mode} string can also have a @Char{b} at the end,
which is needed in some systems to open the file in binary mode.

}

@LibEntry{io.output ([file])|

Similar to @Lid{io.input}, but operates over the default output file.

}

@LibEntry{io.popen (prog [, mode])|

This function is system dependent and is not
 available
on all platforms.

Starts program @id{prog} in a separated process and returns
a file handle that you can use to read data from this program
(if @id{mode} is @T{"r"}, the default)
or to write data to this program
(if @id{mode} is @T{"w"}).

}

@LibEntry{io.read (@Cdots)|

Equivalent to @T{io.input():read(@Cdots)}.

}

@LibEntry{io.tmpfile ()|

In case of success,
returns a handle for a temporary file.
This file is opened in update mode
and it is automatically removed when the program ends.

}

@LibEntry{io.type (obj)|

Checks whether @id{obj} is a valid file handle.
Returns the string @T{"file"} if @id{obj} is an open file handle,
@T{"closed file"} if @id{obj} is a closed file handle,
or @nil if @id{obj} is not a file handle.

}

@LibEntry{io.write (@Cdots)|

Equivalent to @T{io.output():write(@Cdots)}.

}

@LibEntry{file:close ()|

Closes @id{file}.
Note that files are automatically closed when
their handles are garbage collected,
but that takes an unpredictable amount of
time to happen.

When closing a file handle created with @Lid{io.popen},
@Lid{file:close} returns the same values
returned by @Lid{os.execute}.

}

@LibEntry{file:flush ()|

Saves any written data to @id{file}.

}

@LibEntry{file:lines (@Cdots)|

Returns an iterator function that,
each time it is called,
reads the file according to the given formats.
When no format is given,
uses @St{l} as a default.
As an example, the construction
@verbatim{
for c in file:lines(1) do @rep{body} end
}
will iterate over all characters of the file,
starting at the current position.
Unlike @Lid{io.lines}, this function does not close the file
when the loop ends.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{file:read (@Cdots)|

Reads the file @id{file},
according to the given formats, which specify what to read.
For each format,
the function returns a string or a number with the characters read,

or @nil if it cannot read data with the specified format.
(In
this latter case,
the function does not read subsequent formats.)
When called without formats,
it uses a default format that reads the next line
(see below).

The available formats are
@description{

@item{@St{n}|
reads a numeral and returns it as a float or an integer,
following the lexical conventions of Lua.
(The numeral may have leading spaces and a sign.)
This format always reads the longest input sequence that
is a valid prefix for a numeral;
if that prefix does not form a valid numeral
(e.g., an empty string, @St{0x}, or @St{3.4e-}),
it is discarded and the function returns @nil.
}

@item{@St{a}|
reads the whole file, starting at the current position.
On end of file, it returns the empty string.
}

@item{@St{l}|
reads the next line skipping the end of line,
returning @nil on end of file.
This is the default format.
}

@item{@St{L}|
reads the next line keeping the end-of-line character (if present),
returning @nil on end of file.
}

@item{@emph{number}|
reads a string with
up to this number of bytes,
returning @nil on end of file.
If @id{number} is zero,
it reads nothing and returns an empty string,
or @nil on end of file.
}

}

The formats @St{l} and @St{L} should be used only for text files.

}

@LibEntry{file:seek ([whence [, offset]])|

Sets and gets the file position,
measured from the beginning of the file,
to the position given by @id{offset} plus a base
specified by the string @id{whence}, as follows:
@description{
@item{@St{set}| base is position 0 (beginning of the file);}
@item{@St{cur}| base is current position;}
@item{@St{end}| base is end of file;}
}
In case of success, @id{seek} returns the final file position,
measured in bytes from the beginning of the file.
If @id{seek} fails, it returns @nil,
plus a string describing the error.

The default value for @id{whence} is @T{"cur"},
and for @id{offset} is 0.
Therefore, the call @T{file:seek()} returns the current
file position, without changing it;
the call @T{file:seek("set")} sets the position
 to the
beginning of the file (and returns 0);
and the call @T{file:seek("end")} sets the position to the
end of the file, and returns its size.

}

@LibEntry{file:setvbuf (mode [, size])|

Sets the buffering mode for an output file.
There are three available modes:
@description{

@item{@St{no}|
no buffering; the result of any output operation appears immediately.
}

@item{@St{full}|
full buffering; output operation is performed only
when the buffer is full or when
you explicitly @T{flush} the file @seeF{io.flush}.
}

@item{@St{line}|
line buffering; output is buffered until a newline is output
or there is any input from some special files
(such as a terminal device).
}

}
For the last two cases, @id{size}
specifies the size of the buffer, in bytes.
The default is an appropriate size.

}

@LibEntry{file:write (@Cdots)|

Writes the value of each of its arguments to @id{file}.
The arguments must be strings or numbers.

In case of success, this function returns @id{file}.
Otherwise it
 returns @nil plus a string describing the error.

}

}

@sect2{oslib| @title{Operating System Facilities}

This library is implemented through table @defid{os}.

@LibEntry{os.clock ()|

Returns an approximation of the amount in seconds of CPU time
used by the program.

}

@LibEntry{os.date ([format [, time]])|

Returns a string or a table containing date and time,
formatted according to the given string @id{format}.

If the @id{time} argument is present,
this is the time to be formatted
(see the @Lid{os.time} function for a description of this value).
Otherwise, @id{date} formats the current time.

If @id{format} starts with @Char{!},
then the date is formatted in Coordinated Universal Time.
After this optional character,
if @id{format} is the string @St{*t},
then @id{date} returns a table with the following fields:
@id{year}, @id{month} (1@En{}12), @id{day} (1@En{}31),
@id{hour} (0@En{}23), @id{min} (0@En{}59), @id{sec} (0@En{}61),
@id{wday} (weekday, 1@En{}7, Sunday @N{is 1}),
@id{yday}
(day of the year, 1@En{}366),
and @id{isdst} (daylight saving flag, a boolean).
This last field may be absent
if the information is not available.

If @id{format} is not @St{*t},
then @id{date} returns the date as a string,
formatted according to the same rules as the @ANSI{strftime}.

When called without arguments,
@id{date} returns a reasonable date and time representation that depends on
the host system and on the current locale.
(More specifically, @T{os.date()} is equivalent to @T{os.date("%c")}.)

In non-POSIX systems,
this function may be not @x{thread safe}
because of its reliance on @CId{gmtime} and @CId{localtime}.

}

@LibEntry{os.difftime (t2, t1)|

Returns the difference, in seconds,
from time @id{t1} to time @id{t2}
(where the times are values returned by @Lid{os.time}).
In @x{POSIX}, @x{Windows}, and some other systems,
this value is exactly @id{t2}@M{-}@id{t1}.

}

@LibEntry{os.execute ([command])|

This function is equivalent to the @ANSI{system}.
It passes @id{command}
to be executed by an operating system shell.
Its first result is @true
if the command terminated successfully,
or @nil otherwise.
After this first result

the function returns a string plus a number,
as follows:
@description{

@item{@St{exit}|
the command terminated normally;
the following number is the exit status of the command.
}

@item{@St{signal}|
the command was terminated by a signal;
the following number is the signal that terminated the command.
}

}

When called without a @id{command},
@id{os.execute} returns a boolean that is true if a shell is available.

}

@LibEntry{os.exit ([code [, close]])|

Calls the @ANSI{exit} to terminate the host program.
If @id{code} is @Rw{true},
the returned status is @idx{EXIT_SUCCESS};
if @id{code} is @Rw{false},
the returned status is @idx{EXIT_FAILURE};
if @id{code} is a number,
the returned status is this number.
The default value for @id{code} is @Rw{true}.

If the optional second argument @id{close} is true,
closes the Lua state before
exiting.

}

@LibEntry{os.getenv (varname)|

Returns the value of the process environment variable @id{varname},
or @nil if the variable is not defined.

}

@LibEntry{os.remove (filename)|

Deletes the file (or empty directory, on @x{POSIX} systems)

with the given name.
If this function fails, it returns @nil,
plus a string describing the error and the error code.
Otherwise, it returns true.

}

@LibEntry{os.rename (oldname, newname)|

Renames the file or directory named @id{oldname} to @id{newname}.
If this function fails, it returns @nil,
plus a string describing the error and the error code.
Otherwise, it returns true.

}

@LibEntry{os.setlocale (locale [, category])|

Sets the current locale of the program.
@id{locale} is a system-dependent string specifying a locale;
@id{category} is an optional string describing which category to change:
@T{"all"}, @T{"collate"}, @T{"ctype"},
@T{"monetary"}, @T{"numeric"}, or @T{"time"};
the default category is @T{"all"}.
The function returns
 the name of the new locale,
or @nil if the request cannot be honored.

If @id{locale} is the empty string,
the current locale is set to an implementation-defined native locale.
If @id{locale} is the string @St{C},
the current locale is set to the standard C locale.

When called with @nil as the first argument,
this function only returns the name of the current locale
for the given category.

This function may be not @x{thread safe}
because of its reliance on @CId{setlocale}.

}

@LibEntry{os.time ([table])|

Returns the current time when called without arguments,
or a time representing the local date and time specified by the given table.
This table must have fields @id{year}, @id{month}, and @id{day},
and may have fields

@id{hour} (default is 12),
@id{min} (default is 0),
@id{sec} (default is 0),
and @id{isdst} (default is @nil).
Other fields are ignored.
For a description of these fields, see the @Lid{os.date} function.

The values in these fields do not need to be inside their valid
ranges.
For instance, if @id{sec} is -10,
it means -10 seconds from the time specified by the other fields;
if @id{hour} is 1000,
it means +1000 hours from the time specified by the other fields.

The returned value is a number, whose meaning depends on your system.
In @x{POSIX}, @x{Windows}, and some other systems,
this number counts the number
of seconds since some given start time (the @Q{epoch}).
In other systems, the meaning is not specified,
and the number returned by @id{time} can be used only as an argument to
@Lid{os.date} and @Lid{os.difftime}.

}

@LibEntry{os.tmpname ()|

Returns a string with a file name that can
be used for a temporary file.
The file must be explicitly opened before its use
and explicitly removed when no longer needed.

In @x{POSIX} systems,
this function also creates a file with that name,
to avoid security risks.
(Someone else might create the file with wrong permissions
in the time between getting the name and creating the file.)
You still have to
open the file to use it
and to remove it (even if you do not use it).

When possible,
you may prefer to use @Lid{io.tmpfile},
which automatically removes the file when the program ends.

}

}

@sect2{debuglib| @title{The Debug Library}

This library provides
the functionality of the @link{debugI|debug interface} to Lua programs.
You should exert care when using this library.
Several of its functions
violate basic assumptions about Lua code
(e.g., that variables local to a function
cannot be accessed from outside;
that userdata metatables cannot be changed by Lua code;
that Lua programs do not crash)
and therefore can compromise otherwise secure code.
Moreover, some functions in this library may be slow.

All functions in this library are provided
inside the @defid{debug} table.
All functions that operate over a thread
have an optional first argument which is the
thread to operate over.
The default is always the current thread.

@LibEntry{debug.debug ()|

Enters an interactive mode with
 the user,
running each string that the user enters.
Using simple commands and other debug facilities,
the user can inspect global and local variables,
change their values, evaluate expressions, and so on.
A line containing only the word @id{cont} finishes this function,
so that the caller continues its execution.

Note that commands for @id{debug.debug} are not lexically nested
within any function and so have no direct access to local variables.

}

@LibEntry{debug.gethook ([thread])|

Returns the current hook settings of the thread, as three values:
the current hook function, the current hook mask,
and the current hook count
(as set by the @Lid{debug.sethook} function).

}

@LibEntry{debug.getinfo ([thread,] f [, what])|

Returns a table with information about a function.
You can give the function directly
or you can give a number as the value of @id{f},
which means the function running at level @id{f} of the call stack
of the given thread:
@N{level 0} is the current function (@id{getinfo}
itself);
@N{level 1} is the function that called @id{getinfo}
(except for tail calls, which do not count on the stack);
and so on.
If @id{f} is a number larger than the number of active functions,
then @id{getinfo} returns @nil.

The returned table can contain all the fields returned by @Lid{lua_getinfo},
with the string @id{what} describing which fields to fill in.
The default for @id{what} is to get all information available,
except the table of valid lines.
If present,
the option @Char{f}
adds a field named @id{func} with the function itself.
If present,
the option @Char{L}
adds a field named @id{activelines} with the table of
valid lines.

For instance, the expression @T{debug.getinfo(1,"n").name} returns
a name for the current function,
if a reasonable name can be found,
and the expression @T{debug.getinfo(print)}
returns a table with all available information
about the @Lid{print} function.

}

@LibEntry{debug.getlocal ([thread,] f, local)|

This function returns the name
and the value of the local variable
with index @id{local} of the function at level @id{f} of the stack.
This function accesses not only explicit local variables,
but also parameters, temporaries, etc.

The first parameter or local variable has @N{index 1}, and so on,
following the order that they are declared in the code,
counting only the variables that are active
in the current scope of the function.
Negative indices refer to vararg arguments;

@num{-1} is the first vararg argument.
The function returns @nil if there is no variable with the given index,
and raises an error when called with a level out of range.
(You can call @Lid{debug.getinfo} to check whether the level is valid.)

Variable names starting with @Char{(} (open parenthesis) @C{)}
represent variables with no known names
(internal variables such as loop control variables,
and variables from chunks saved without debug information).

The parameter @id{f} may also be a function.
In that case, @id{getlocal} returns only the
 name of function parameters.

}

@LibEntry{debug.getmetatable (value)|

Returns the metatable of the given @id{value}
or @nil if it does not have a metatable.

}

@LibEntry{debug.getregistry ()|

Returns the registry table @see{registry}.

}

@LibEntry{debug.getupvalue (f, up)|

This function returns the name and the value of the upvalue
with index @id{up} of the function @id{f}.
The function returns @nil if there is no upvalue with the given index.

Variable names starting with @Char{(} (open parenthesis) @C{)}
represent variables with no known names
(variables from chunks saved without debug information).

}

@LibEntry{debug.getuservalue (u)|

Returns the Lua value associated to @id{u}.
If @id{u} is not a full userdata,
returns @nil.

}

@LibEntry{debug.sethook ([thread,] hook, mask [, count])|

Sets the given function as a hook.
The string @id{mask} and the number @id{count} describe
when the hook will be called.
The string mask may have any combination of the following characters,
with
 the given meaning:
@description{
@item{@Char{c}| the hook is called every time Lua calls a function;}
@item{@Char{r}| the hook is called every time Lua returns from a function;}
@item{@Char{l}| the hook is called every time Lua enters a new line of code.}
}
Moreover,
with a @id{count} different from zero,
the hook is called also after every @id{count} instructions.

When called without arguments,
@Lid{debug.sethook} turns off the hook.

When the hook is called, its first argument is a string
describing the event that has triggered its call:
@T{"call"} (or @T{"tail call"}),
@T{"return"},
@T{"line"}, and @T{"count"}.
For line events,
the hook also gets the new line number as its second parameter.
Inside a hook,
you can call @id{getinfo} with @N{level 2} to get more information about
the running function
(@N{level 0} is the @id{getinfo} function,
and @N{level 1} is the hook function).

}

@LibEntry{debug.setlocal ([thread,] level, local, value)|

This function assigns the value @id{value}
 to the local variable
with index @id{local} of the function at level @id{level} of the stack.
The function returns @nil if there is no local
variable with the given index,
and raises an error when called with a @id{level} out of range.
(You can call @id{getinfo} to check whether the level is valid.)
Otherwise, it returns the name of the local variable.

See @Lid{debug.getlocal} for more information about

variable indices and names.

}

@LibEntry{debug.setmetatable (value, table)|

Sets the metatable for the given @id{value} to the given @id{table}
(which can be @nil).
Returns @id{value}.

}

@LibEntry{debug.setupvalue (f, up, value)|

This function assigns the value @id{value} to the upvalue
with index @id{up} of the function @id{f}.
The function returns @nil if there is no upvalue
with the given index.
Otherwise, it returns the name of the upvalue.

}

@LibEntry{debug.setuservalue (udata, value)|

Sets the given @id{value} as
the Lua value associated to the given @id{udata}.
@id{udata}
must be a full userdata.

Returns @id{udata}.

}

@LibEntry{debug.traceback ([thread,] [message [, level]])|

If @id{message} is present but is neither a string nor @nil,
this function returns @id{message} without further processing.
Otherwise,
it returns a string with a traceback of the call stack.
The optional @id{message} string is appended
at the beginning of the traceback.
An optional @id{level} number tells at which level
to start the traceback
(default is 1, the function calling @id{traceback}).

}

@LibEntry{debug.upvalueid (f, n)|

Returns a unique identifier (as a light userdata)
for the upvalue numbered @id{n}
from the given function.

These unique identifiers allow a program to check whether different
closures share upvalues.
Lua closures that share an upvalue
(that is, that access a same external local variable)
will return identical ids for those upvalue indices.

}

@LibEntry{debug.upvaluejoin (f1, n1, f2, n2)|

Make the @id{n1}-th upvalue of the Lua closure @id{f1}
refer
 to the @id{n2}-th upvalue of the Lua closure @id{f2}.

}

}

}

@C{---}
@sect1{lua-sa| @title{Lua Standalone}

Although Lua has been designed as an extension language,
to be embedded in a host @N{C program},
it is also frequently used as a standalone language.
An interpreter for Lua as a standalone language,
called simply @id{lua},
is provided with the standard distribution.
The @x{standalone interpreter} includes
all standard libraries, including the debug library.
Its usage is:
@verbatim{
lua [options] [script [args]]
}
The options are:
@description{
@item{@T{-e @rep{stat}}| executes string @rep{stat};}
@item{@T{-l @rep{mod}}| @Q{requires} @rep{mod} and assigns the
 result to global @@rep{mod};}
@item{@T{-i}| enters interactive mode after running @rep{script};}
@item{@T{-v}| prints version information;}

@item{@T{-E}| ignores environment variables;}
@item{@T{--}| stops handling options;}
@item{@T{-}| executes
 @id{stdin} as a file and stops handling options.}
}
After handling its options, @id{lua} runs the given @emph{script}.
When called without arguments,
@id{lua} behaves as @T{lua -v -i}
when the standard input (@id{stdin}) is a terminal,
and as @T{lua -} otherwise.

When called without option @T{-E},
the interpreter checks for an environment variable @defid{LUA_INIT_5_3}
(or @defid{LUA_INIT} if the versioned name is not defined)
before running any argument.
If the variable content has the format @T{@At@rep{filename}},
then @id{lua} executes the file.
Otherwise, @id{lua} executes the string itself.

When called with option @T{-E},
besides ignoring @id{LUA_INIT},
Lua also ignores
the values of @id{LUA_PATH} and @id{LUA_CPATH},
setting the values of
@Lid{package.path} and @Lid{package.cpath}
with the default paths defined in @id{luaconf.h}.

All options are handled in order, except @T{-i} and @T{-E}.
For instance, an invocation like
@verbatim{
$ lua -e'a=1' -e 'print(a)' script.lua
}
will
 first set @id{a} to 1, then print the value of @id{a},
and finally run the file @id{script.lua} with no arguments.
(Here @T{$} is the shell prompt. Your prompt may be different.)

Before running any code,
@id{lua} collects all command-line arguments
in a global table called @id{arg}.
The script name goes to index 0,
the first argument after the script name goes to index 1,
and so on.
Any arguments before the script name
(that is, the interpreter name plus its options)
go to negative indices.
For instance, in the call
@verbatim{

$ lua -la b.lua t1 t2
}
the table is like this:
@verbatim{
arg = { [-2] = "lua", [-1] = "-la",
      [0] = "b.lua",
      [1] = "t1", [2] = "t2" }
}
If there is no script in the call,
the interpreter name goes to index 0,
followed by the other arguments.
For instance, the call
@verbatim{
$ lua -e "print(arg[1])"
}
will print @St{-e}.
If there is a script,
the script is called with arguments
@T{arg[1]}, @Cdots, @T{arg[#arg]}.
(Like all chunks in Lua,
the
 script is compiled as a vararg function.)

In interactive mode,
Lua repeatedly prompts and waits for a line.
After reading a line,
Lua first try to interpret the line as an expression.
If it succeeds, it prints its value.
Otherwise, it interprets the line as a statement.
If you write an incomplete statement,
the interpreter waits for its completion
by issuing a different prompt.

If the global variable @defid{_PROMPT} contains a string,
then its value is used as the prompt.
Similarly, if the global variable @defid{_PROMPT2} contains a string,
its value is used as the secondary prompt
(issued during incomplete statements).

In case of unprotected errors in the script,
the interpreter reports the error to the standard error stream.
If the error object is not a string but
has a metamethod @idx{__tostring},
the interpreter calls this metamethod to produce the final message.
Otherwise, the interpreter converts the error object to a string
and adds a stack traceback to it.

When finishing normally,

the
interpreter closes its main Lua state
@seeF{lua_close}.
The script can avoid this step by
calling @Lid{os.exit} to terminate.

To allow the use of Lua as a
script interpreter in Unix systems,
the standalone interpreter skips
the first line of a chunk if it starts with @T{#}.
Therefore, Lua scripts can be made into executable programs
by using @T{chmod +x} and @N{the @T{#!}} form,
as in
@verbatim{
#!/usr/local/bin/lua
}
(Of course,
the location of the Lua interpreter may be different in your machine.
If @id{lua} is in your @id{PATH},
then
@verbatim{
#!/usr/bin/env lua
}
is a more portable solution.)

}

@sect1{incompat| @title{Incompatibilities with the Previous Version}

Here we list the incompatibilities that you may find when moving a program
from @N{Lua 5.2} to @N{Lua 5.3}.
You can avoid some incompatibilities by compiling Lua with
appropriate options (see file @id{luaconf.h}).
However,
all these compatibility options will be removed in the future.

Lua versions can always
change the C API in ways that
do not imply source-code changes in a program,
such as the numeric values for constants
or the implementation of functions as macros.
Therefore,
you should not assume that binaries are compatible between
different Lua versions.
Always recompile clients of the Lua API when
using a new version.

Similarly, Lua versions can always change the internal representation
of precompiled chunks;
precompiled chunks are not compatible between different Lua versions.

The standard paths in the official distribution may
change between versions.

@sect2{@title{Changes in the Language}
@itemize{

@item{
The main difference between @N{Lua 5.2} and @N{Lua 5.3} is the
introduction of an integer subtype for numbers.
Although this change should not affect @Q{normal} computations,
some computations
(mainly those that involve some kind of overflow)
can give different results.

You can fix these differences by forcing a number to be a float
(in @N{Lua 5.2} all numbers were float),
in
 particular writing constants with an ending @T{.0}
or using @T{x = x + 0.0} to convert a variable.
(This recommendation is only for a quick fix
for an occasional incompatibility;
it is not a general guideline for good programming.
For good programming,
use floats where you need floats
and integers where you need integers.)
}

@item{
The conversion of a float to a string now adds a @T{.0} suffix
to the result if it looks like an integer.
(For instance, the float 2.0 will be printed as @T{2.0},
not as @T{2}.)
You should always use an explicit format
when you need a specific format for numbers.

(Formally this is not an incompatibility,
because Lua does not specify how numbers are formatted as strings,
but some programs assumed a specific format.)
}

@item{
The generational mode for the garbage collector was removed.
(It was an experimental feature in @N{Lua 5.2}.)
}

```
}

}

@sect2{@title{Changes in the Libraries}
@itemize{

@item{
The @id{bit32} library has been deprecated.
It is
 easy to require a compatible external library or,
better yet, to replace its functions with appropriate bitwise operations.
(Keep in mind that @id{bit32} operates on 32-bit integers,
while the bitwise operators in @N{Lua 5.3} operate on Lua integers,
which by default have @N{64 bits}.)
}

@item{
The Table library now respects metamethods
for setting and getting elements.
}

@item{
The @Lid{ipairs} iterator now respects metamethods and
its @idx{__ipairs} metamethod has been deprecated.
}


@item{
Option names in @Lid{io.read} do not have a starting @Char{*} anymore.
For compatibility, Lua will continue to accept (and ignore) this character.
}

@item{
The following functions were deprecated in the mathematical library:
@id{atan2}, @id{cosh}, @id{sinh}, @id{tanh}, @id{pow},
@id{frexp}, and @id{ldexp}.
You can replace @T{math.pow(x,y)} with @T{x^y};
you can replace @id{math.atan2} with @id{math.atan},
which now accepts one or two arguments;
you can replace @T{math.ldexp(x,exp)} with @T{x
 * 2.0^exp}.
For the other operations,
you can either use an external library or
implement them in Lua.
}
```

@item{
The searcher for C loaders used by @Lid{require}
changed the way it handles versioned names.
Now, the version should come after the module name
(as is usual in most other tools).
For compatibility, that searcher still tries the old format
if it cannot find an open function according to the new style.
(@N{Lua 5.2} already worked that way,
but it did not document the change.)
}

@item{
The call @T{collectgarbage("count")} now returns only one result.
(You can compute that second result from the fractional part
of the first result.)
}

}

}

@sect2{@title{Changes in the API}

@itemize{

@item{
Continuation functions now receive as arguments what they needed
to get through @id{lua_getctx},
so @id{lua_getctx} has been removed.
Adapt your code accordingly.
}

@item{
Function @Lid{lua_dump} has an extra parameter, @id{strip}.
Use 0 as the value of this parameter to get the old behavior.
}

@item{
Functions
 to inject/project unsigned integers
(@id{lua_pushunsigned}, @id{lua_tounsigned}, @id{lua_tounsignedx},
@id{luaL_checkunsigned}, @id{luaL_optunsigned})
were deprecated.
Use their signed equivalents with a type cast.
}

@item{
Macros to project non-default integer types

(@id{luaL_checkint}, @id{luaL_optint}, @id{luaL_checklong}, @id{luaL_optlong})
were deprecated.
Use their equivalent over @Lid{lua_Integer} with a type cast
(or, when possible, use @Lid{lua_Integer} in your code).
}

}

}

}

@C{[===}

@sect1{BNF| @title{The Complete Syntax of Lua}

Here is the complete syntax of Lua in extended BNF.
As usual in extended BNF,
@bnfNter{{A}} means 0 or more @bnfNter{A}s,
and @bnfNter{[A]} means an optional @bnfNter{A}.
(For operator precedences, see @See{prec};
for a description of the terminals
@bnfNter{Name}, @bnfNter{Numeral},
and @bnfNter{LiteralString}, see @See{lexical}.)
@index{grammar}

@Produc{

@producname{chunk}@producbody{block}

@producname{block}@producbody{@bnfrep{stat}
 @bnfopt{retstat}}

@producname{stat}@producbody{
 @bnfter{;}
@OrNL varlist @bnfter{=} explist
@OrNL functioncall
@OrNL label
@OrNL   @Rw{break}
@OrNL   @Rw{goto} Name
@OrNL @Rw{do} block @Rw{end}
@OrNL @Rw{while} exp @Rw{do} block @Rw{end}
@OrNL @Rw{repeat} block @Rw{until} exp
@OrNL @Rw{if} exp @Rw{then} block
 @bnfrep{@Rw{elseif} exp @Rw{then} block}
 @bnfopt{@Rw{else} block} @Rw{end}
@OrNL @Rw{for} @bnfNter{Name} @bnfter{=} exp @bnfter{,} exp @bnfopt{@bnfter{,} exp}

```
 @Rw{do} block @Rw{end}
@OrNL   @Rw{for} namelist @Rw{in} explist @Rw{do} block @Rw{end}
@OrNL @Rw{function} funcname funcbody
@OrNL @Rw{local} @Rw{function} @bnfNter{Name} funcbody
@OrNL @Rw{local} namelist @bnfopt{@bnfter{=} explist}
}

@producname{retstat}@producbody{@Rw{return}
                        @bnfopt{explist} @bnfopt{@bnfter{;}}}

@producname{label}@producbody{@bnfter{::} Name @bnfter{::}}

@producname{funcname}@producbody{@bnfNter{Name}
 @bnfrep{@bnfter{.} @bnfNter{Name}}
                    @bnfopt{@bnfter{:} @bnfNter{Name}}}

@producname{varlist}@producbody{var @bnfrep{@bnfter{,} var}}

@producname{var}@producbody{
 @bnfNter{Name}
@Or prefixexp @bnfter{[} exp @bnfter{]}
@Or prefixexp @bnfter{.} @bnfNter{Name}
}

@producname{namelist}@producbody{@bnfNter{Name} @bnfrep{@bnfter{,} @bnfNter{Name}}}


@producname{explist}@producbody{exp @bnfrep{@bnfter{,} exp}}

@producname{exp}@producbody{
 @Rw{nil}
@Or @Rw{false}
@Or @Rw{true}
@Or @bnfNter{Numeral}
@Or @bnfNter{LiteralString}
@Or @bnfter{...}
@Or functiondef
@OrNL prefixexp
@Or tableconstructor
@Or exp binop exp
@Or unop exp
}

@producname{prefixexp}@producbody{var @Or functioncall @Or @bnfter{(} exp @bnfter{)}}

@producname{functioncall}@producbody{
 prefixexp args
@Or prefixexp @bnfter{:} @bnfNter{Name} args
```

```
}

@producname{args}@producbody{
 @bnfter{(} @bnfopt{explist} @bnfter{)}
@Or tableconstructor
@Or @bnfNter{LiteralString}
}

@producname{functiondef}@producbody{@Rw{function}
 funcbody}

@producname{funcbody}@producbody{@bnfter{(} @bnfopt{parlist} @bnfter{)} block @Rw{end}}

@producname{parlist}@producbody{namelist @bnfopt{@bnfter{,} @bnfter{...}}
 @Or @bnfter{...}}

@producname{tableconstructor}@producbody{@bnfter{@Open} @bnfopt{fieldlist} @bnfter{@Close}}

@producname{fieldlist}@producbody{field @bnfrep{fieldsep field} @bnfopt{fieldsep}}

@producname{field}@producbody{@bnfter{[} exp @bnfter{]} @bnfter{=} exp @Or @bnfNter{Name}
@bnfter{=} exp @Or exp}

@producname{fieldsep}@producbody{@bnfter{,} @Or @bnfter{;}}

@producname{binop}@producbody{
 @bnfter{+} @Or @bnfter{-} @Or @bnfter{*} @Or @bnfter{/} @Or @bnfter{//}
   @Or @bnfter{^} @Or @bnfter{%}
      @OrNL
 @bnfter{&} @Or @bnfter{~} @Or @bnfter{|} @Or @bnfter{>>} @Or @bnfter{<<}
   @Or @bnfter{..}
      @OrNL
 @bnfter{<} @Or @bnfter{<=} @Or @bnfter{>} @Or @bnfter{>=}
   @Or @bnfter{==} @Or @bnfter{~=}
      @OrNL
 @Rw{and} @Or @Rw{or}}

@producname{unop}@producbody{@bnfter{-}
 @Or @Rw{not} @Or @bnfter{#} @Or
 @bnfter{~}}

}

}

@C{]==========================================================}

}
```

@C{)]--}

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1.540 mime-pull 1.9.15

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* https://github.com/eclipse-ee4j/metro-saaj
* https://github.com/eclipse-ee4j/metro-jwsdp-samples
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addressing.xml Version: 2004/10 (n/a)

* License: W3C
* Project: https://www.w3.org/Submission/ws-addressing/
* Source: http://schemas.xmlsoap.org/ws/2004/08/addressing/

ant-launcher (1.10.2)

* License: Apache-2.0 AND SAX-PD AND W3C
* Project:
https://ant.apache.org/
* Source:
http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar

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* License: Apache-1.1
* Project: https://ant.apache.org/
* Source: https://repo1.maven.org/maven2/ant/ant/1.6/ant-1.6-sources.jar

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commons-logging (1.1.2)

* License: Apache-2.0
* Project: https://commons.apache.org/proper/commons-logging/
* Source:
http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-logging-1.1.2-sources.jar

JUnit (4.12)

* License: Eclipse Public License

maven-core (3.5.2)

* License: Apache-2.0

maven-plugin-annotations (3.5.1)

* License: Apache-2.0
* Project:
https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html
* Source:
https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0
*
Project: https://maven.apache.org/
* Source: https://github.com/apache/maven/tree/master/maven-plugin-api

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings (3.5.2)

* License: Apache-2.0

mex.xsd Version: 2004/09 (n/a)

* License: Oasis Style
* Project: https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II
* Source: http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

* License: New BSD license

stax2-api (4.1)

* License: Pending
* Project: https://github.com/FasterXML/stax2-api
* Source:
  http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar

testng (6.14.2)

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* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

woodstox-core-asl
(4.4.1)

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woodstox-core-asl (5.1.0)

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* Project: https://github.com/FasterXML/woodstox
* Source: https://github.com/FasterXML/woodstox

ws-addr.wsd (1.0)

* License: W3C
* Project: https://www.w3.org/2005/08/addressing/
* Source: https://www.w3.org/2006/03/addressing/ws-addr.xsd

wsat.xsd Version: 2004/10 (n/a)

* License: Oasis Style
* Project: http://schemas.xmlsoap.org/ws/2004/10/wsat/
* Source: http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd

wscoor.xsd (1.0)

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wscoor.xsd (1.1)

* License: Oasis (Custom)
* Project: http://docs.oasis-open.org/ws-tx/wscoor/2006/06
* Source:
  http://docs.oasis-open.org/ws-tx/wscoor/2006/06/wstx-wscoor-1.1-schema-200701.xsd

wsrm Version: 2005/02 (n/a)

* License: Oasis (Custom)
* Project: http://schemas.xmlsoap.org/ws/2005/02/rm/
* Source:
  http://schemas.xmlsoap.org/ws/2005/02/rm/wsrm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsrm-policy.xsd

wsrm.xsd
(1.2)

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wstx-wsat.xsd (1.1)

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xmlsec (1.5.8)

* License: Apache-2.0
* Project: http://santuario.apache.org/
* Source:

https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar

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1.541 float16 0.8.4

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1.542 commons-beanutils 1.11.0

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1.543 ubuntu-keyring 2021.03.26

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1.544 jakarta-validation-api 2.0.2

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~
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Comments to: bean-validation-dev@eclipse.org.
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Found in path(s):
* /jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml
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*
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/Default.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java

* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/UnwrapByDefault.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NegativeOrZero.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDefinitionException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ValidationProvider.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ElementKind.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/GroupConversionDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ExtractedValue.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodType.java
* /jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstructorDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Path.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PositiveOrZero.java
*
 /jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ElementDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerElementTypeDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupDefinitionException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Min.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/ConvertGroup.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/Scope.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Max.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ReportAsSingleViolation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ParameterNameProvider.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Pattern.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/NoProviderFoundException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotBlank.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java

* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Valid.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ClockProvider.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Configuration.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ValidateOnExecution.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/TraversableResolver.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableValidator.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationProviderResolver.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorFactory.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerDescriptor.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstraintDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ParameterDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotNull.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupSequence.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Negative.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorFactory.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/OverridesAttribute.java
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*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDeclarationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/PropertyDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java

1.545 openssl 1.1.1f-1ubuntu2.19

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1.553 kubernetes-model-gatewayapi 6.5.1

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* /kubernetes-model-gatewayapi-6-5-1-2-jar/META-INF/maven/io.fabric8/kubernetes-model-gatewayapi/pom.xml
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Manifest-Version: 1.0
Build-Jdk-Spec: 1.8
Bundle-Description: Java client for Kubernetes and OpenShift
Bundle-DocURL: http://redhat.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: Sigs :: Gateway API
Bundle-SymbolicName: io.fabric8.kubernetes-model-gatewayapi
Bundle-Vendor: Red Hat
Bundle-Version: 6.5.1
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.api.model.gatewayapi.v1alpha2;us
es:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,
com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.b
uilder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.api.mode
l.gatewayapi.v1beta1,io.fabric8.kubernetes.model.annotation";version=
"6.5.1",io.fabric8.kubernetes.api.model.gatewayapi.v1beta1;uses:="com
.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fast
 erxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,i
o.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation
";version="6.5.1"
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
netes-model-gatewayapi/
Import-Package: com.fasterxml.jackson.annotation;version="[2.14,3)",co
m.fasterxml.jackson.databind;version="[2.14,3)",com.fasterxml.jackson
.databind.annotation;version="[2.14,3)",io.fabric8.kubernetes.api.bui
lder;version="[6.5,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub
ernetes.api.model.gatewayapi.v1beta1,io.fabric8.kubernetes.model.anno
tation;version="[6.5,7)"
Include-Resource: META-INF/services/io.fabric8.kubernetes.api.model.Ku
bernetesResource=target/classes/META-INF/services/io.fabric8.kubernet
es.api.model.KubernetesResource,schema/kube-schema.json=src/main/reso
urces/schema/kube-schema.json,schema/validation-schema.json=src/main/
resources/schema/validation-schema.json,manifest.vm=src/main/resource
 s/manifest.vm,/META-INF/jandex.idx=target/classes/META-INF/jandex.idx
Private-Package: schema
Provide-Capability: osgi.serviceloader;osgi.serviceloader="io.fabric8.
kubernetes.api.model.KubernetesResource"
Require-Capability: osgi.extender;filter:="(osgi.extender=osgi.service
loader.registrar)",osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git
/kubernetes-model-generator/kubernetes-model-gatewayapi
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-gatewayapi/

Specification-Title: Fabric8 :: Kubernetes Model :: Sigs :: Gateway AP
I
Specification-Vendor: Red Hat
Specification-Version: 6.5
Tool: Bnd-6.3.1.202206071316

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1.555 base-passwd 3.5.52build1

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Upstream-Name: base-passwd
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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.557 httpcomponents-core 4.3.2

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1.560 audit 1:3.0.7-1build1

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(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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can be directly used with curl / libcurl / php_curl, or with
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a

non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes

2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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principal author, although it includes many contributions from others.

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

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1.562 pep517 0.12.0

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* /logback-throttling-appender-1-1-11-sources-jar/META-INF/maven/io.dropwizard.logback/logback-throttling-appender/pom.xml

1.564 jakarta-inject-api 1.0.5

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1.565 python-setuptools 59.6.0-1.2ubuntu0.22.04.3

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1.566 jinja 3.0.3-1ubuntu0.4

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1.567 metrics-jersey2 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jersey2
Build-Jdk-Spec: 17
Bundle-Description: A set of class providing Metrics integration for J
ersey, the reference JAX-RS implementation.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Jersey 2.x
Bundle-SymbolicName: io.dropwizard.metrics.jersey2
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metri
cs,javax.ws.rs.core,javax.ws.rs.ext,org.glassfish.jersey.server.model
,org.glassfish.jersey.server.monitoring";version="4.2.23"
Implementation-Title: Metrics Integration for Jersey 2.x
Implementation-Version: 4.2.23
Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.me
trics.annotation;version="[4.2,5)",javax.ws.rs.core;version="[2.1,3)"
,javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;versio
n="[2.41,3)",org.glassfish.jersey.server.model;version="[2.41,3)",org
.glassfish.jersey.server.monitoring;version="[2.41,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

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* /metrics-jersey2-4-2-23-jar/META-INF/MANIFEST.MF

1.568 acl 2.3.1-1

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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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Version 3, 29 June 2007

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1.571 selinux 3.5-2ubuntu2.1

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
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under the terms of Sections 1 and 2 above on a
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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
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5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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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
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1.572 libsepol 3.5-2build1

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d) If a facility in the modified
Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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
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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.

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1.581 supervisor 4.3.0

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1.584 python-requests 2.32.5

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1.585 hk2-utils 2.6.1

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1.586 x-text 0.23.0

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1.587 sqlx 1.4.0

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1.588 prometheus-client-model 0.6.1

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1.589 tomli 2.0.1

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*
 /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
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.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
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.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
 Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
 to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
 you should check this out.

say:
 make all

su and say:
 make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

 crontab -u uucp -r /usr/lib/uucp/crontab.src
 crontab -u news -r /usr/lib/news/crontab.src
 crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have
 no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root.  When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally.  (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
 be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into
ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

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1.592 psutil 5.7.2

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1.593 jersey-common 2.39

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That's all there is to it!

1.595 unzip 6.0-26ubuntu3.2

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This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

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 acompaning
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 decompresseion
core routines, previously put into the public domain). All these
Info-ZIP contributors (or "primary" authors) have permitted us to
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

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

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement 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)
  * Copyright  1992-1998
Apple Computer, Inc.
  * Portions copyright  1995 Jim Luther
  * All rights reserved.
  * The Package "More Files" is distributed under the following
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  *
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  *          However, what you are not permitted to do is to
  *          redistribute the source as "DSC Sample Code" after
  *          having made changes. If you're going to
  *          redistribute the source, we require that you make
  *          it clear in the source that the code was descended
  *          from Apple Sample Code, but that you've made
  *          changes."
```

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

```
  *  MacBinaryIII.h
```

```
  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
  *  MacBinary III spec.
  * ------------------------------------------------------------------------
  * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
  * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
  * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

This copyright note does not contain any usage terms. So, we assume that this code is freely reusable until we are proved wrong...

The remaining copyright notes have been superseeded by the new Info-ZIP license, with explicit permission from the respective original authors. They are cited here for historical reasons, only:

The following copyright applies to the full-featured unreduce.c (now distributed separately):

```
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  *
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  * If you use this in your own program you must distribute source code.
  * Do not use any of this in a commercial product.
```

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

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

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

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

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The following copyright applied to most of the VMS code in vms.c,
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```
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```

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```
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  * Frequently Asked Questions section below, plus one additional
  * condition:  namely, that my name not be removed from the source
  * code.  (Other names may, of course, be added as modifications
  * are made.)  Corporate legal staff (like at IBM :-) ) who have
  * problems understanding this can contact me through Zip-Bugs...
```

The following copyright applied to the Windows DLL code (windll/*),
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```
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```

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CE GUI port, ``Pocket
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```
  * All the source files for Pocket UnZip, except for components
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  * Miller.  The product "Pocket UnZip" itself is property of the
  * author and cannot be altered in any way without written consent
```

* from Steve P. Miller.

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.

1.596 metrics-health-checks 4.2.23

1.596.1 Available under license :

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

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.health
Build-Jdk-Spec: 17
Bundle-Description: An addition to Metrics which provides the ability
to run application-specific health checks, allowing you to che
ck your application's heath in production.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Health Checks
Bundle-SymbolicName: io.dropwizard.metrics.healthchecks
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.health;uses:="com.codahale.metric
s";version="4.2.23",com.codahale.metrics.health.annotation;version="4
.2.23",com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.he
alth,com.codahale.metrics.jvm";version="4.2.23"
Implementation-Title: Metrics Health Checks
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
 ;version="[4.2,5)",com.codahale.metrics.health,com.codahale.metrics.h
ealth.annotation,com.codahale.metrics.jvm;version="[4.2,5)";resolutio
n:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-healthchecks-4-2-23-jar/META-INF/MANIFEST.MF

1.597 xxhash 0.8.1-1

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1.598 kubernetes-yaml 1.6.0

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

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

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
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```

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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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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Gadi Oxman, August 1995

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

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

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1.600 containerd-log 0.1.0

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1.601 commons-lang3 3.7

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1.602 apr-util 1.6.1-5ubuntu4.22.04.2

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1.603 git 1:2.25.1-1ubuntu3.11

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1.605 ubuntu-keyring 2020.02.11.4

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1.606 python-setuptools 80.9.0

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  python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools distutils --very-verbose -t setuptools=setuptools/config/setuptools.schema.json -t distutils=setuptools/config/distutils.schema.json

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
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- https://github.com/abravalheri/validate-pyproject/issues

***

The following files include code from opensource projects
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- `fastjsonschema_exceptions.py`:
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- `__init__.py`
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***

`fastjsonschema`
================

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`validate-pyproject`
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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 https://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 https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, 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 https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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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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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.609 httpcomponents-client 4.5.14

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1.610 xml-commons-resolver 1.1

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1.615 fsnotify 1.6.0

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1.616 metrics-annotation 4.2.23

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

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.annotation
Build-Jdk-Spec: 17
Bundle-Description: A dependency-less package of just the annotations
used by other Metrics modules.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Annotations for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.annotation
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.annotation;version="4.2.23"
Implementation-Title: Annotations for Metrics
Implementation-Version: 4.2.23
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-annotation-4-2-23-jar/META-INF/MANIFEST.MF

1.617 keyutils 1.6.1-2ubuntu3

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functions (ten lines or less in length), then the use of the object
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Any executables containing that work also fall under Section 6,
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That's all there is to it!

1.618 logstash-logback-encoder 7.0

1.618.1 Available under license :

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

Manifest-Version: 1.0
Bundle-Description: Provides logback encoders, layouts, and appenders
to log in JSON and other formats supported by Jackson
Automatic-Module-Name: logstash.logback.encoder
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0, http://www
.slf4j.org/license.html
Bundle-SymbolicName: net.logstash.logback.logstash-logback-encoder
Built-By: runner
Bnd-LastModified: 1636851592774
Bundle-ManifestVersion: 2
Import-Package: ch.qos.logback.access;version="[1.2,2)";resolution:=op
tional,ch.qos.logback.access.spi;version="[1.2,2)";resolution:=option
al,com.fasterxml.jackson.core;version="[2.13,3)",com.fasterxml.jackso
n.core.filter;version="[2.13,3)",com.fasterxml.jackson.core.io;versio
n="[2.13,3)",com.fasterxml.jackson.core.util;version="[2.13,3)",com.f
asterxml.jackson.databind;version="[2.13,3)",com.fasterxml.jackson.da
tabind.node;version="[2.13,3)",com.fasterxml.jackson.databind.util;ve
 rsion="[2.13,3)",com.fasterxml.jackson.dataformat.cbor;version="[2.13
,3)";resolution:=optional,com.fasterxml.jackson.dataformat.smile;vers
ion="[2.13,3)";resolution:=optional,com.fasterxml.jackson.dataformat.
yaml;version="[2.13,3)";resolution:=optional,com.fasterxml.uuid;versi
on="[4.0,5)";resolution:=optional,com.fasterxml.uuid.impl;version="[4
.0,5)";resolution:=optional,javax.net,javax.net.ssl,net.logstash.logb
ack,net.logstash.logback.appender.destination,net.logstash.logback.ap
pender.listener,net.logstash.logback.argument,net.logstash.logback.co
mposite,net.logstash.logback.composite.accessevent,net.logstash.logba
ck.composite.loggingevent,net.logstash.logback.decorate,net.logstash.
logback.encoder,net.logstash.logback.fieldnames,net.logstash.logback.
marker,net.logstash.logback.pattern,net.logstash.logback.stacktrace,n
et.logstash.logback.status,net.logstash.logback.util
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Fragment-Host: ch.qos.logback.classic
Tool:
 Bnd-5.1.1.202006162103
Export-Package: net.logstash.logback;uses:="ch.qos.logback.access.spi,
com.fasterxml.jackson.databind,net.logstash.logback.composite,net.log
stash.logback.composite.accessevent,net.logstash.logback.composite.lo
ggingevent,net.logstash.logback.fieldnames";version="7.0.0",net.logst
ash.logback.appender;uses:="ch.qos.logback.access.spi,javax.net,net.l
ogstash.logback.appender.destination,net.logstash.logback.appender.li

stener";version="7.0.0",net.logstash.logback.appender.destination;ver
sion="7.0.0",net.logstash.logback.appender.listener;uses:="ch.qos.log
back.access.spi";version="7.0.0",net.logstash.logback.argument;uses:=
"com.fasterxml.jackson.core";version="7.0.0",net.logstash.logback.com
posite;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databi
nd,com.fasterxml.jackson.databind.node,net.logstash.logback.decorate,
net.logstash.logback.fieldnames,net.logstash.logback.pattern";version
="7.0.0",net.logstash.logback.composite.accessevent;uses:="ch.qos.log
back.access.spi,com.fasterxml.jackson.core,net.logstash.logback.compo
site,net.logstash.logback.fieldnames,net.logstash.logback.pattern";ve
rsion="7.0.0",net.logstash.logback.composite.loggingevent;uses:="com.
fasterxml.jackson.core,net.logstash.logback.composite,net.logstash.lo
gback.fieldnames,net.logstash.logback.pattern";version="7.0.0",net.lo
gstash.logback.decorate;uses:="com.fasterxml.jackson.core,com.fasterx
ml.jackson.core.io";version="7.0.0",net.logstash.logback.decorate.cbo
r;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.dataformat.
cbor,net.logstash.logback.decorate";version="7.0.0",net.logstash.logb
ack.decorate.smile;uses:="com.fasterxml.jackson.core,com.fasterxml.ja
ckson.dataformat.smile,net.logstash.logback.decorate";version="7.0.0"
,net.logstash.logback.decorate.yaml;uses:="com.fasterxml.jackson.core
,com.fasterxml.jackson.dataformat.yaml,net.logstash.logback.decorate"
;version="7.0.0",net.logstash.logback.encoder;uses:="ch.qos.logback.a
ccess.spi,net.logstash.logback,net.logstash.logback.composite,net.log
stash.logback.composite.accessevent,net.logstash.logback.composite.lo
ggingevent,net.logstash.logback.decorate,net.logstash.logback.fieldna
mes";version="7.0.0",net.logstash.logback.fieldnames;version="7.0.0",
net.logstash.logback.layout;uses:="ch.qos.logback.access.spi,net.logs
tash.logback,net.logstash.logback.composite,net.logstash.logback.comp
osite.accessevent,net.logstash.logback.composite.loggingevent,net.log
stash.logback.decorate,net.logstash.logback.fieldnames";version="7.0.
0",net.logstash.logback.marker;uses:="com.fasterxml.jackson.core,net.
logstash.logback.argument";version="7.0.0",net.logstash.logback.mask;
uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.core.util,net
.logstash.logback.decorate";version="7.0.0",net.logstash.logback.patt
ern;uses:="ch.qos.logback.access.spi,com.fasterxml.jackson.core,com.f
asterxml.jackson.databind";version="7.0.0",net.logstash.logback.stack
trace;version="7.0.0",net.logstash.logback.status;version="7.0.0",net
.logstash.logback.util;version="7.0.0"
Bundle-Name: Logstash Logback Encoder
Bundle-Version: 7.0.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_312

Found in path(s):
* /logstash-logback-encoder-7-0-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2635696048_1761681453.5541592/0/logstash-logback-encoder-7-0-jar/META-INF/maven/net.logstash.logback/logstash-logback-encoder/pom.xml<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

Found in path(s):
*

1.619 free-type 8.82.0.21

1.619.1 Available under license :

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builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c

src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
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1.622 jaxb-runtime 2.3.1

1.623 golang-protobuf-extensions 1.0.4

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1.624 python-setuptools 79.0.1

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://www.cnri.reston.va.us)

in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, 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 https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.629 classmate 1.6.0

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* /javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
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* /javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java

* /javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
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 /javassist-3-29-2-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
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1.636 cachecontrol 0.12.10

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Metadata-Version: 2.1
Name: CacheControl
Version: 0.12.10
Summary: httplib2 caching for requests
Home-page: https://github.com/ionrock/cachecontrol
Author: Eric Larson
Author-email: eric@ionrock.org
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Description: ..
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==========
CacheControl
==========

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:target: https://pypi.python.org/pypi/cachecontrol
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:target: https://travis-ci.org/ionrock/cachecontrol

CacheControl is a port of the caching algorithms in httplib2_ for use with requests_ session object.

It was written because httplib2's
better support for caching is often
mitigated by its lack of thread safety. The same is true of requests in terms of caching.

Quickstart
==========

.. code-block:: python

  import requests

  from cachecontrol import CacheControl

  sess = requests.session()
  cached_sess = CacheControl(sess)

  response = cached_sess.get('http://google.com')

If the URL contains any caching based headers, it will cache the
result in a simple dictionary.

For more info, check out the docs_

.. _docs: http://cachecontrol.readthedocs.org/en/latest/
.. _httplib2: https://github.com/httplib2/httplib2
.. _requests: http://docs.python-requests.org/

Keywords: requests http caching web
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Web
 Environment
Classifier: License :: OSI Approved :: Apache Software License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
Classifier: Topic :: Internet :: WWW/HTTP
Requires-Python: >=3.6
Provides-Extra: redis
Provides-Extra: filecache

Found in path(s):
* /cachecontrol-0-12-10-1-tar-gz/CacheControl-0.12.10/CacheControl.egg-info/PKG-INFO
* /cachecontrol-0-12-10-1-tar-gz/CacheControl-0.12.10/PKG-INFO

1.637 procps 2:3.3.17-6ubuntu2.1

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1.638 java-semver 0.9.0

1.639 bouncycastle-fips 2.0.0

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1.640 kubernetes-client-api 6.5.1

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Found in path(s):
* /kubernetes-client-api-6-5-1-2-jar/META-INF/maven/io.fabric8/kubernetes-client-api/pom.xml

1.641 commons-collections 4.4

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1.642 pytz 2022.1

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.644 cffi 1.17.1

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1.646 brotli 1.0.7-6ubuntu0.1

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1.648 dropwizard-health 2.1.11

1.648.1 Available under license :

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1.649 metrics-servlets 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.servlets
Build-Jdk-Spec: 17
Bundle-Description: A set of utility servlets for Metrics, allowing yo
u to expose valuable information about your production environ
ment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Utility Servlets
Bundle-SymbolicName: io.dropwizard.metrics.servlets
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.servlets;uses:="com.codahale.metr
ics,com.codahale.metrics.health,com.fasterxml.jackson.databind,javax.
servlet,javax.servlet.http";version="4.2.23"
Implementation-Title: Metrics Utility Servlets
Implementation-Version: 4.2.23
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",com
.codahale.metrics.health;version="[4.2,5)",com.codahale.metrics.json;
 version="[4.2,5)",com.codahale.metrics.jvm;version="[4.2,5)",com.fast
erxml.jackson.databind;version="[2.12,3)",com.fasterxml.jackson.datab
ind.util;version="[2.12,3)",com.papertrail.profiler;version="[1.1,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-servlets-4-2-23-jar/META-INF/MANIFEST.MF

1.650 nghttp2 1.43.0-1ubuntu0.2

1.650.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: nghttp2
Upstream-Contact: Tatsuhiro Tsujikawa <t-tujikawa@users.sourceforge.net>
Source: https://github.com/tatsuhiro-t/nghttp2

Files: *
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expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the
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1.654 tar 1.34+dfsg-1ubuntu0.1.22.04.2

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1.656 cpp 12.3.0-1ubuntu1~22.04.2

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
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libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

 ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
 svn://gcc.gnu.org/svn/gcc/   (for prerereleases)
 ftp://sourceware.org/pub/newlib/   (for newlib)
 git://git.savannah.gnu.org/gm2.git   (for Modula-2)

The current gcc-12 source package is taken from the git gcc-12-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language   Compiler package Library package   Documentation

Ada
           gnat-12   libgnat-12   gnat-12-doc
C   gcc-12   gcc-12-doc
C++   g++-12   libstdc++6   libstdc++6-12-doc
D   gdc-12
Fortran 95   gfortran-12   libgfortran5   gfortran-12-doc
Go   gccgo-12   libgo0
Objective C   gobjc-12   libobjc4
Objective C++ gobjc++-12
Modula-2   gm2-12   libgm2

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:

Language Sources   Development   Debugging   Position-Independent

---

C++ libstdc++6-12-dbg libstdc++6-12-pic
D libphobos-12-dev

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-12-base
Base files common to all compilers
gcc-12-soft-float Software floating point (ARM only)
gcc-12-source The sources with patches

Ada:
libgnat-util12-dev, libgnat-util12 GNAT version library

C:
cpp-12, cpp-12-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code,
Debian provides additional packages containing 32-bit versions of some
libraries. These packages have names beginning with 'lib32' instead of
'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which
can also run 64-bit code, Debian provides additional
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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
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D:
gdc-12 GNU D Compiler
libphobos-12-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:
- d/phobos/*

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1.658 debianutils 5.5-1ubuntu2

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Found in path(s):
* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/run-parts.8
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/* ischroot: detect if running in a chroot
*
* Debian ischroot program
* Copyright (C) 2011 Aurelien Jarno <aurel32@debian.org>
* Copyright (C) 2015 Andreas Henriksson <andreas@fatal.se>
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/* run-parts: run a bunch of scripts in a directory
*
* Debian run-parts program
* Copyright (C) 1996 Jeff Noxon <jeff@router.patch.net>,
* Copyright (C) 1996-1999 Guy Maor <maor@debian.org>
* Copyright (C) 2002-2020 Clint Adams <clint@debian.org>
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*
* Based on run-parts.pl version 0.2, Copyright (C) 1994 Ian Jackson.
*
*/

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* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/which.1
* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/add-shell.8
* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/savelog.8
* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/installkernel.8
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1.659 masterminds-semver 3.4.0

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1.660 jetty 9.4.56.v20240826

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.661 jackson-databind 2.16.1

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1.664 diffutils 1:3.8-0ubuntu2

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GNU `diff' was written by Mike Haertel, David Hayes, Richard Stallman,
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GNU `sdiff' was written by Thomas Lord.  GNU `cmp' was written by
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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.667 gorp 3.1.0

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src/arc4random.c

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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
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src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.677 pyyaml 6.0.3

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1.678 go-md2man 2.0.6

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1.679 cyrus-sasl 2.1.27+dfsg2-3ubuntu1.2

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1.690 aop-alliance 2.6.1

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</artifactItem>\
</artifactItems>\
</configuration>\
</execution>\
</executions>\
</plugin>\
<plugin>\
<groupId>org.codehaus.mojo</groupId>\
<artifactId>build-helper-maven-plugin</artifactId>\
<executions>\
<execution>\
<id>step2-add-sources</id>\
<phase>process-sources</phase>\
<goals>\
<goal>add-source</goal>\
</goals>\
<configuration>\
<sources>\
<source>$\{project.build.directory\}/alternateLocation</source>\
</sources>\
</configuration>\
</execution>\
</executions>\
</plugin>\
<plugin>\
<groupId>org.apache.felix</groupId>\
<artifactId>maven-bundle-plugin</artifactId>\
<configuration>\
<instructions>\
<Embed-Dependency>\'a0*;scope=compile;inline=true\'a0</Embed-Dependency>\
<!--\
We set a mandatory attribute for these packages, because we don't\
want them to be visible to just anyone. An importer must specify\
the mandatory attribute for it to be able to import. See \
section #3.6.5 of OSGi R4 spec.\
Why is this required?\
See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385\
By doing this, we allow user have any version of apache-commons lib\
in their application class loader hierarchy. They don't even have to\
set delegation=false in sun-web.xml! This is the true advantage of\
using OSGi.

Sahoo.\
\
-->\
<Export-Package>org.aopalliance.*;version=$\{aopalliance.version\}</Export-Package>\
<Private-Package>!*</Private-Package>\
</instructions>\
</configuration>\
<executions>\
<execution>\
<id>osgi-manifest</id>\
<phase>process-classes</phase>\
<goals>\
<goal>manifest</goal>\
</goals>\
</execution>\
</executions>\
</plugin>\
</plugins>\
</build>\
<dependencies>\
<dependency>\
<groupId>aopalliance</groupId>\
<artifactId>aopalliance</artifactId>\
<version>$\{aopalliance.version\}</version>\
<optional>true</optional>\
</dependency>\
</dependencies>\
</project>\
}

Found in path(s):
* /aopalliance-2-6-1-zip/aopalliance-2.6.1.rtf

1.691 json-path 0.0.0-20210407135951-1de76d718b3f

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1.692 jersey-hk2 2.39

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1.698 pflag 1.0.6

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1.699 libxext 2:1.3.4-1build1

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1.700 base-files 13ubuntu10.3

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1.701 tomli 2.3.0

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1.702 pcre2 10.39-3ubuntu0.1

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1.703 sensible-utils 0.0.22

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1.708 openssh 1:8.9p1-3ubuntu0.13

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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 */
```

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*/

#include "includes.h"

#if !defined(HAVE_STATVFS) || !defined(HAVE_FSTATVFS)

#include <sys/types.h>

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif
#ifdef HAVE_SYS_STATFS_H
#include <sys/statfs.h>
#endif
#ifdef
 HAVE_SYS_VFS_H
#include <sys/vfs.h>
#endif
```

```
#ifndef HAVE_FSBLKCNT_T
typedef unsigned long fsblkcnt_t;
#endif
#ifndef HAVE_FSFILCNT_T
typedef unsigned long fsfilcnt_t;
#endif

#ifndef ST_RDONLY
#define ST_RDONLY 1
#endif
#ifndef ST_NOSUID
#define ST_NOSUID 2
#endif

 /* as defined in IEEE Std 1003.1, 2004 Edition */
struct statvfs {
 unsigned long f_bsize; /* File system block size. */
 unsigned long f_frsize; /* Fundamental file system block size. */
 fsblkcnt_t f_blocks; /* Total number of blocks on file system in */
   /* units of f_frsize. */
 fsblkcnt_t    f_bfree; /* Total number of free blocks. */
 fsblkcnt_t    f_bavail; /* Number of free blocks available to  */
   /* non-privileged process.  */
 fsfilcnt_t    f_files; /* Total number of file serial numbers. */
 fsfilcnt_t    f_ffree; /* Total number of free file serial numbers. */
 fsfilcnt_t    f_favail; /* Number of file serial numbers available to */
   /* non-privileged process. */
 unsigned long f_fsid; /*
 File system ID. */
 unsigned long f_flag; /* BBit mask of f_flag values. */
 unsigned long f_namemax;/*  Maximum filename length. */
};
#endif

#ifndef HAVE_STATVFS
int statvfs(const char *, struct statvfs *);
#endif

#ifndef HAVE_FSTATVFS
int fstatvfs(int, struct statvfs *);
#endif
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*/

#ifndef _BSD_MISC_H
#define _BSD_MISC_H

#include "includes.h"

char *ssh_get_progname(char *);
int seed_from_prngd(unsigned char *, size_t);

#ifndef HAVE_SETSID
#define setsid() setpgrp(0, getpid())
#endif
 /* !HAVE_SETSID */

#ifndef HAVE_SETENV
int setenv(const char *, const char *, int);
#endif /* !HAVE_SETENV */

#ifndef HAVE_SETLOGIN
int setlogin(const char *);
#endif /* !HAVE_SETLOGIN */

#ifndef HAVE_INNETGR
int innetgr(const char *, const char *, const char *, const char *);
#endif /* HAVE_INNETGR */

#if !defined(HAVE_SETEUID) && defined(HAVE_SETREUID)
int seteuid(uid_t);
#endif /* !defined(HAVE_SETEUID) && defined(HAVE_SETREUID) */

#if !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID)
int setegid(uid_t);
#endif /* !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID) */

#if !defined(HAVE_STRERROR) && defined(HAVE_SYS_ERRLIST) && defined(HAVE_SYS_NERR)
const char *strerror(int);
#endif

#if !defined(HAVE_SETLINEBUF)
```

```
#define setlinebuf(a) (setvbuf((a), NULL, _IOLBF, 0))
#endif

#ifndef HAVE_UTIMES
#ifndef HAVE_STRUCT_TIMEVAL
struct timeval {
 long tv_sec;
 long tv_usec;
}
#endif /* HAVE_STRUCT_TIMEVAL */

int utimes(char *, struct timeval *);
#endif /* HAVE_UTIMES */

#ifndef AT_FDCWD
#
 define AT_FDCWD (-2)
#endif

#ifndef HAVE_FCHMODAT
int fchmodat(int, const char *, mode_t, int);
#endif

#ifndef HAVE_FCHOWNAT
int fchownat(int, const char *, uid_t, gid_t, int);
#endif

#ifndef HAVE_TRUNCATE
int truncate (const char *, off_t);
#endif /* HAVE_TRUNCATE */

#ifndef HAVE_STRUCT_TIMESPEC
struct timespec {
 time_t tv_sec;
 long tv_nsec;
};
#endif /* !HAVE_STRUCT_TIMESPEC */

#if !defined(HAVE_NANOSLEEP) && !defined(HAVE_NSLEEP)
# include <time.h>
int nanosleep(const struct timespec *, struct timespec *);
#endif

#ifndef HAVE_UTIMENSAT
# include <time.h>
/* start with the high bits and work down to minimise risk of overlap */
# ifndef AT_SYMLINK_NOFOLLOW
#  define AT_SYMLINK_NOFOLLOW 0x80000000
```

```
# endif
int utimensat(int, const char *, const struct timespec[2], int);
#endif /* !HAVE_UTIMENSAT */

#ifndef HAVE_USLEEP
int usleep(unsigned int useconds);
#endif

#ifndef HAVE_TCGETPGRP
pid_t tcgetpgrp(int);
#endif

#ifndef HAVE_TCSENDBREAK
int tcsendbreak(int, int);
#endif

#ifndef
 HAVE_UNSETENV
int unsetenv(const char *);
#endif

#ifndef HAVE_ISBLANK
int isblank(int);
#endif

#ifndef HAVE_GETPGID
pid_t getpgid(pid_t);
#endif

#ifndef HAVE_PSELECT
int pselect(int, fd_set *, fd_set *, fd_set *, const struct timespec *,
   const sigset_t *);
#endif

#ifndef HAVE_ENDGRENT
# define endgrent() do { } while(0)
#endif

#ifndef HAVE_KRB5_GET_ERROR_MESSAGE
# define krb5_get_error_message krb5_get_err_text
#endif

#ifndef HAVE_KRB5_FREE_ERROR_MESSAGE
# define krb5_free_error_message(a,b) do { } while(0)
#endif

#ifndef HAVE_PLEDGE
int pledge(const char *promises, const char *paths[]);
```

```
#endif

/* bsd-err.h */
#ifndef HAVE_ERR
void err(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_ERRX
void errx(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_WARN
void warn(const char *, ...) __attribute__((format(printf, 1, 2)));
#endif

#ifndef HAVE_LLABS
long long llabs(long long);
#endif

#if defined(HAVE_DECL_BZERO)
 && HAVE_DECL_BZERO == 0
void bzero(void *, size_t);
#endif

#ifndef HAVE_RAISE
int raise(int);
#endif

#ifndef HAVE_GETSID
pid_t getsid(pid_t);
#endif

#ifndef HAVE_FLOCK
# define LOCK_SH  0x01
# define LOCK_EX  0x02
# define LOCK_NB  0x04
# define LOCK_UN  0x08
int flock(int, int);
#endif

#ifdef FFLUSH_NULL_BUG
# define fflush(x) (_ssh_compat_fflush(x))
#endif

#ifndef HAVE_LOCALTIME_R
struct tm *localtime_r(const time_t *, struct tm *);
#endif

#ifndef HAVE_REALPATH
#define realpath(x, y) (sftp_realpath((x), (y)))
```

```
#endif

#endif /* _BSD_MISC_H */
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*
* Created: Sat Sep 02 12:17:00 2000 cv
*
* This file contains functions for forcing opened file descriptors to
* binary mode on Windows systems.
*/

#ifndef _BSD_CYGWIN_UTIL_H
#define _BSD_CYGWIN_UTIL_H

#ifdef HAVE_CYGWIN

#undef ERROR

/* Avoid including windows headers. */
typedef void *HANDLE;
#define INVALID_HANDLE_VALUE ((HANDLE) -1)
#define DNLEN 16
#define UNLEN 256

/* Cygwin functions for which declarations are only available when including
  windows headers, so we have to define them here explicitly. */
```

```
extern HANDLE cygwin_logon_user (const struct passwd *, const char *);
extern void cygwin_set_impersonation_token (const HANDLE);

#include
 <sys/cygwin.h>
#include <io.h>

#define CYGWIN_SSH_PRIVSEP_USER (cygwin_ssh_privsep_user())
const char *cygwin_ssh_privsep_user();

int binary_open(const char *, int , ...);
int check_ntsec(const char *);
char **fetch_windows_environment(void);
void free_windows_environment(char **);
int cygwin_ug_match_pattern_list(const char *, const char *);

#ifndef NO_BINARY_OPEN
#define open binary_open
#endif

#endif /* HAVE_CYGWIN */

#endif /* _BSD_CYGWIN_UTIL_H */
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#ifndef _BSD_SIGNAL_H
#define _BSD_SIGNAL_H

#include "includes.h"

#include <signal.h>

#ifndef _NSIG
# ifdef NSIG
```

```
#  define _NSIG NSIG
# else
#  define _NSIG 128
# endif
#endif

#if !defined(HAVE_STRSIGNAL)
char
 *strsignal(int);
#endif

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

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

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

#include <sys/types.h>
#ifdef HAVE_POLL_H
# include <poll.h>
```

```
#elif HAVE_SYS_POLL_H
# include <sys/poll.h>
#endif

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

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

#define
 INFTIM  (-1) /* not standard */
#endif /* !HAVE_STRUCT_POLLFD_FD */

#ifndef HAVE_NFDS_T
typedef unsigned int nfds_t;
#endif

#ifndef HAVE_POLL
int   poll(struct pollfd *, nfds_t, int);
#endif

#ifndef HAVE_PPOLL
int   ppoll(struct pollfd *, nfds_t, const struct timespec *, const sigset_t *);
#endif

#endif /* !_COMPAT_POLL_H_ */
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*
*/

#ifndef _NEXT_POSIX_H
#define _NEXT_POSIX_H

#ifdef HAVE_NEXT
#include <sys/dir.h>

/* NGROUPS_MAX is behind -lposix.  Use the BSD version which is NGROUPS */
#undef NGROUPS_MAX
#define NGROUPS_MAX NGROUPS

/* NeXT's readdir() is BSD (struct direct) not POSIX (struct dirent) */
#define dirent direct

/* Swap out NeXT's BSD wait() for a more POSIX compliant one */
pid_t posix_wait(int *);
#define wait(a) posix_wait(a)

/* #ifdef wrapped functions that need defining for clean compiling */
pid_t getppid(void);
void vhangup(void);
int innetgr(const char *, const char *, const char *, const char *);

/* TERMCAP */
int tcgetattr(int, struct termios *);
int tcsetattr(int, int,
 const struct termios *);
int tcsetpgrp(int, pid_t);
```

```
speed_t cfgetospeed(const struct termios *);
speed_t cfgetispeed(const struct termios *);
int cfsetospeed(struct termios *, int);
int cfsetispeed(struct termios *, int);
#endif /* HAVE_NEXT */
#endif /* _NEXT_POSIX_H */
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*/

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

1.709 apt 2.0.9

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1.713 pyasn1 0.6.1

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

NOTE:
The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 3.8+
* 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](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html),
compiled ASN.1 modules for different protocols and file formats

could be found in the pyasn1-modules
[repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions
 of 2-clause
BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely
available as a GitHub [repo](https://github.com/pyasn1/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/epyasn1/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
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[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Name: pyasn1
Version: 0.6.1
Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Home-page: https://github.com/pyasn1/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: pyasn1 maintenance organization
Maintainer-email: Christian Heimes <christian@python.org>
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ASN.1 library for Python

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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](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely
available as a GitHub [repo](https://github.com/pyasn1/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/epyasn1/pyasn1/issues) at GitHub or
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or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/PKG-INFO
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/contents.rst
No license file was found, but licenses were detected in source scan.

[metadata]
name = pyasn1
version = attr: pyasn1.__version__
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
long_description = file: README.md
long_description_content_type = text/markdown
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
 Documentation=https://pyasn1.readthedocs.io
 Source=https://github.com/pyasn1/pyasn1
 Issues=https://github.com/pyasn1/pyasn1/issues
 Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
 Development Status :: 5 - Production/Stable
 Environment :: Console
 Intended Audience :: Developers
 Intended Audience :: Education
 Intended Audience :: Information Technology
 Intended Audience :: System
 Administrators
 Intended Audience :: Telecommunications Industry
 License :: OSI Approved :: BSD License
 Natural Language :: English
 Operating System :: OS Independent
 Programming Language :: Python :: 3
 Programming Language :: Python :: 3.8
 Programming Language :: Python :: 3.9

Programming Language :: Python :: 3.10
Programming Language :: Python :: 3.11
Programming Language :: Python :: 3.12
Programming Language :: Python :: 3.13
Programming Language :: Python :: Implementation :: CPython
Programming Language :: Python :: Implementation :: PyPy
Topic :: Communications
Topic :: Software Development :: Libraries :: Python Modules

[options]
python_requires = >=3.8
zip_safe = True
setup_requires = setuptools
packages =
pyasn1
pyasn1.type
pyasn1.compat
pyasn1.codec
pyasn1.codec.ber
pyasn1.codec.cer
pyasn1.codec.der
pyasn1.codec.native

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/setup.cfg

1.714 libapache2-mod-authz-unixgroup 1.1.0-1

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1.715 python-pip 25.2

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A. HISTORY OF THE SOFTWARE
==========

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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1.720 grep 3.11-4build1

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1.722 libssh 0.9.3-2ubuntu2.3

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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
*
/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configuration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/HexBinaryDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/ValidatedInfo.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/IdentityConstraint.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMEntityResolverWrapper.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLLocator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/SchemaDVFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultText.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/TextImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
*
/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSConstants.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DocumentImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIDocumentImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSWildcardDecl.java

* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSElementDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
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*/
/**
  * DOM Level 3 LS CR - Experimental.
    * Create a new <code>LSParser</code>. The newly constructed parser may
    * then be configured by means of its <code>DOMConfiguration</code>
    * object, and used to parse documents by means of its <code>parse</code>
    * method.
    * @param mode The
 <code>mode</code> argument is either
    *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
    *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in synchronous
    *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in asynchronous
    *   mode.
    * @param schemaType An absolute URI representing the type of the schema
    *   language used during the load of a <code>Document</code> using the
    *   newly created <code>LSParser</code>. Note that no lexical checking
    *   is done on the absolute URI. In order to create a
    *   <code>LSParser</code> for any kind of schema types (i.e. the
    *   LSParser will be free to use any schema found), use the value
    *   <code>null</code>.
    * <p >Note: For W3C XML Schema [XML Schema Part 1]

```
     *   , applications must use the value
    *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
    *   applications must use the value
    *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
    *   are outside the scope of the W3C and therefore should recommend an
    *   absolute URI in order to use this method.
    * @return  The newly created <code>LSParser</code> object. This
    *   <code>LSParser</code> is either synchronous or asynchronous
    *   depending on the value of the <code>mode</code> argument.
    * <p ><b>Note:</b>     By default, the newly created <code>LSParser</code>
    *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
    *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
    *   error-handler</a>" configuration parameter is <code>null</code>. However, implementations
     *   may provide a default error handler at creation time. In that case,
    *   the initial value of the <code>"error-handler"</code> configuration
    *   parameter on the new created <code>LSParser</code> contains a
    *   reference to the default error handler.
    * @exception DOMException
    *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
    *   not supported.
   */

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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SAXParserImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/Constants.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/DFAContentModel.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/events/EventImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNSDocumentScannerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementDefinitionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11EntityScanner.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11NMTOKENDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Encodings.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SerializerFactoryImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/ElementState.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMUniOp.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SerializerFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/LCount.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIDOMImplementationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredNode.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammarBucket.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Serializer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/Version.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/LineSeparator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Op.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/CachingParserPool.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeepNodeListImpl.java

* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredCommentImpl.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeIteratorImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Match.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/OutputFormat.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/events/MutationEventImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMNode.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EncodingMap.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredTextImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/REUtil.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CommentImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Printer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NotationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/EntityImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/MessageFormatter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/ValidationManager.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Method.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/TextSerializer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/EntityReferenceImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/HTMLdtd.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLNotationDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ASDOMImplementationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CharacterDataImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/IndentPrinter.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/HexBin.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLStringBuffer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java

* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLScanner.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLErrorReporter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLChar.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11NSDocumentScannerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityScanner.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XHTMLSerializer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/XPathException.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ASModelImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DatatypeException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLParseException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLEntityResolver.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XNIException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMOutputImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultNode.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/ValidationContext.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/KeyRef.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/StringDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/IDDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/DTDDVFactoryImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeValueException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/XSFacets.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationSourceImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/EntityState.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java

* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSGrammarBucket.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMXSImplementationSourceImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMStringListImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/NamespaceContext.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DTDDVFactory.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLParserConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultDocument.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SymbolHash.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/UnionDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/IntegratedParserConfiguration.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDSource.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentScanner.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/NodeImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/ValidationState.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/BooleanDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarPreparser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidatorFilter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
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*/
/**
   * used to check the 3 constraints against each complex type
   * (should be each model group):
   * Unique Particle Attribution, Particle Derivation (Restriction),
   * Element Declrations Consistent.
   */

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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLVersionDetector.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/StringList.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ShortList.java
*

/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObject.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SecurityManager.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItemList.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ItemPSVI.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItem.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSImplementation.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObjectList.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAnnotation.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSLoader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
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/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTerm.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModel.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/LSInputList.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/AttributePSVI.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModelGroupDefinition.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSFacet.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeUse.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSParticle.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSWildcard.java

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* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/ObjectFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/ObjectFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractSAXParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMConfigurationImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ParentNode.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMNormalizer.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLString.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/Augmentations.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/QName.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/JAXPConstants.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/ASCIIReader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DefaultValidationErrorHandler.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponentManager.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DefaultErrorHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarPool.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponent.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXInputSource.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/LocatorProxy.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/AttributeMap.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMAny.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/XPath.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ChildNode.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java
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1.728 fontconfig 2.13.1-4.2ubuntu5

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1.731 simpleclient-common 0.16.0

1.731.1 Available under license :

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Manifest-Version: 1.0
Bnd-LastModified: 1655327905690
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Common code used by various modules of the Simplecli
ent.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses:="io.prometheu
s.client";version="0.16.0"
Import-Package: io.prometheus.client;version="[0.16,1)",io.prometheus.cl
ient.exemplars;version="[0.16,1)"
Tool: Bnd-2.1.0.20130426-122213

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1.732 coreutils 8.32-4.1ubuntu1.2

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This is Debian GNU/Linux's prepackaged version of the PCRE regular
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This package was put together by me, Mark Baker <mbaker@iee.org> from the
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1.738 cpp 14.2.0-4ubuntu2~24.04

1.738.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)

git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-14 source package is taken from the git gcc-14-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-14	libgnat-14	gnat-14-doc
C	gcc-14		gcc-14-doc
C++	g++-14	libstdc++6	libstdc++6-14-doc
D	gdc-14		
Fortran 95	gfortran-14	libgfortran5	gfortran-14-doc
Go	gccgo-14	libgo0	
Objective C	gobjc-14	libobjc4	
Objective C++	gobjc++-14		
Modula-2	gm2-14	libgm2	
Rust	gccrs-14		

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-14-dbg	libstdc++6-14-pic	
D	libphobos-14-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4
: GCC intrinsics (platform-dependent)

gcc-14-base
: Base files common to all compilers

gcc-14-soft-float
: Software floating point (ARM only)

gcc-14-source
: The sources with patches

Ada:

libgnat-util14-dev, libgnat-util14
: GNAT version library

C:

cpp-14, cpp-14-doc
: GNU C Preprocessor

libssp0-dev, libssp0
: GCC stack smashing protection library

libquadmath0
: Math routines for the __float128 type

fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

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libquadmath/math/

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libquadmath/math/isinfq.c:
Written by J.T. Conklin <jtc@netbsd.org>.
Change for long double by Jakub Jelinek <jj@ultra.linux.cz>
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copysignq.c, coshq.c, cosq.c, erfq.c, fabsq.c, finiteq.c, floorq.c,
fmodq.c, frexpq.c, hypotq.c, ilogbq.c, isnanq.c, jnq.c, ldexpq.c,
logbq.c, modfq.c, nearbyintq.c, nextafterq.c, powq.c, remainderq.c,
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D:
gdc-14 GNU D Compiler
libphobos-14-dev D standard runtime library

The D source package is made up of the following components.

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and valid for as
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model, to give anyone who possesses the object code either (1) a
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more than your reasonable cost of physically performing this
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1.743 bzip2 1.0.8-2

1.743.1 Available under license :

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.744 dropwizard-lifecycle 2.1.11

1.744.1 Available under license :

Apache-2.0

1.745 metrics-jetty 4.2.23

1.745.1 Available under license :

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

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jetty9
Build-Jdk-Spec: 17
Bundle-Description: A set of extensions for Jetty 9.3 and higher which
 provide instrumentation of thread pools, connector metrics, a
nd application latency and utilization.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Jetty 9.3 and higher
Bundle-SymbolicName: io.dropwizard.metrics.jetty9
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jetty9;uses:="com.codahale.metric
s,com.codahale.metrics.annotation,javax.servlet,javax.servlet.http,or
g.eclipse.jetty.io,org.eclipse.jetty.server,org.eclipse.jetty.server.
handler,org.eclipse.jetty.util.annotation,org.eclipse.jetty.util.comp
onent,org.eclipse.jetty.util.thread";version="4.2.23"
Implementation-Title: Metrics Integration for Jetty

9.3 and higher
Implementation-Version: 4.2.23
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",com
.codahale.metrics.annotation;version="[4.2,5)",org.eclipse.jetty.http
;version="[9.4,10)",org.eclipse.jetty.io;version="[9.4,10)",org.eclip
se.jetty.server;version="[9.4,10)",org.eclipse.jetty.server.handler;v
ersion="[9.4,10)",org.eclipse.jetty.util.annotation;version="[9.4,10)
",org.eclipse.jetty.util.component;version="[9.4,10)",org.eclipse.jet
ty.util.thread;version="[9.4,10)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jetty9-4-2-23-jar/META-INF/MANIFEST.MF

1.746 e2fsprogs 1.45.5-2ubuntu1.1

1.746.1 Available under license :

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

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

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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)
```

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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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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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otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/SequenceGroup.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/MultiProducerSequencer.java
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*
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* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/AggregateEventHandler.java
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1.762 metrics-caffeine 4.2.23

1.762.1 Available under license :

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

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.caffeine
Build-Jdk-Spec: 17
Bundle-Description: Metrics Integration for Caffeine 2.x.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Caffeine 2.x
Bundle-SymbolicName: io.dropwizard.metrics.caffeine
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.caffeine;uses:="com.codahale.metr
ics,com.github.benmanes.caffeine.cache,com.github.benmanes.caffeine.c
ache.stats,org.checkerframework.checker.index.qual";version="4.2.23"
Implementation-Title: Metrics Integration for Caffeine 2.x
Implementation-Version: 4.2.23
Import-Package: com.codahale.metrics;version="[4.2,5)",com.github.benm
anes.caffeine.cache;version="[2.9,3)",com.github.benmanes.caffeine.ca
che.stats;version="[2.9,3)",org.checkerframework.checker.index.qual;v
ersion="[3.41,4)"
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-caffeine-4-2-23-jar/META-INF/MANIFEST.MF

1.763 zlib 1:1.2.11.dfsg-2ubuntu1.5

1.763.1 Available under license :

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

/* gun.c -- simple gunzip 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):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for 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):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/* 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):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* 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 (minizip) (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.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

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

Copyright (C) 2007-2008 Even Rouault

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 paches recived from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

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

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
No license file was found, but licenses were detected in source scan.

/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012

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distribution.

Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.

/* 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)

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

Modifications for Zip64 support
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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   misrepresented as being the original software.
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Changes

See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. 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).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file

test/minigzip.c. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short "./configure; make test", and if that goes well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
 -O, one libpng test fails. The test works in 32 bit mode (with the -n32
 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
 OSF/1 2.1 it works
 when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
 necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
 other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

 The deflate format used by zlib was defined by Phil Katz. The deflate and
 zlib specifications were written by L. Peter Deutsch. Thanks to all the
 people who reported problems and suggested various improvements in zlib; they
 are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include
third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
Not copyrighted -- provided to the public domain
Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

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

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

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

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library

* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* 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):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* 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
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)

* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
 zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* 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 (minizip) (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

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   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

      Changes

      See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.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):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

```
* For conditions of distribution and use, see copyright notice in zlib.h
*
* 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
* instead of four steps with four exclusive-ors.  This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

```
/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
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```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4  11 December 2005  Mark Adler */
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

   Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

   The zlib sources can be compiled without change to produce a DLL. See the
   file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the
   precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
    * http://marknelson.us/1997/01/01/zlib-engine/
    * win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

    example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so: symbol __register_frame_info: referenced symbol not found

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The gz* functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be
careful to not use Z_FULL_FLUSH too often, since it
can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a

single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is

performing a conditional jump that depends on an uninitialized value.
Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.764 bash 5.0-6ubuntu1.2

1.764.1 Available under license :

This is Debian GNU/Linux's prepackaged version of the FSF's GNU Bash, the Bourne Again SHell.

This package was put together by Matthias Klose <doko@debian.org>, from the following sources:

bash: ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz

Bash homepage: http://tiswww.case.edu/php/chet/bash/bashtop.html

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Authored by Brian Fox and Chet Ramey.

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readline/doc/history.texi (GNU History Library Manual)

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Authored by Brian Fox and Chet Ramey.

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readline/doc/{hstech,hsuser}.texi (GNU History Library Manual)

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support/man2html.c

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1.765 decimal 1.4.0

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1.774 slf4j 1.7.26

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* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/MDCAdapter.java
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* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/SubstituteLogger.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticLoggerBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/MDC.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/FormattingTuple.java
*
/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/Util.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMarker.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMDCAdapter.java
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* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/LocationAwareLogger.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/Logger.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPMDCAdapter.java
*
/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPLogger.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/ILoggerFactory.java

1.775 libgcrypt 1.8.5-5ubuntu1.1

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1.776 j2objc-annotations 2.8

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* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedWith.java
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1.777 truststore 0.10.4

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1.778 typing-extensions 4.12.2

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://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 https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, 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 https://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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1.780 packaging 24.2

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1.781 rich 14.1.0

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1.786 truststore 0.10.1

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1.787 kubernetes-client 6.5.1

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src/arc4random_win.h
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tests/benchmarks/bench_sftp.c
tests/benchmarks/benchmarks.c
tests/benchmarks/benchmarks.h
tests/benchmarks/latency.c
tests/client/torture_algorithms.c
tests/client/torture_auth.c
tests/client/torture_connect.c
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examples/senddata.c
examples/CMakeLists.txt
include/libssh/ssh2.h
tests/authentication.c
tests/benchmarks/bench1.sh
tests/benchmarks/bench2.sh
tests/chmodtest.c
tests/client/torture_proxycommand.c
tests/client/torture_sftp_dir.c
tests/client/torture_sftp_read.c
tests/cmdline.c
tests/connection.c
tests/generate.py
tests/sftp_stress/main.c
tests/test_exec.c
tests/test_ssh_bind_accept_fd.c
tests/test_tunnel.c

tests/tests.h
tests/unittests/torture_buffer.c
tests/unittests/torture_callbacks.c
tests/unittests/torture_channel.c
tests/unittests/torture_init.c
tests/unittests/torture_isipaddr.c
tests/unittests/torture_keyfiles.c
tests/unittests/torture_list.c
tests/unittests/torture_misc.c
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examples/libssh_scp.c
examples/libsshpp.cpp
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tests/pkd/pkd_daemon.c
tests/pkd/pkd_daemon.h
tests/pkd/pkd_hello.c
tests/pkd/pkd_keyutil.c
tests/pkd/pkd_keyutil.h
tests/pkd/pkd_util.c
tests/pkd/pkd_util.h
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Files: src/channels.c
src/gzip.c
src/known_hosts.c
src/misc.c
src/options.c
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src/pki_crypto.c
src/pki_gcrypt.c
src/sftp.c
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Files: include/libssh/agent.h
include/libssh/options.h
src/agent.c
src/callbacks.c
src/config.c
tests/client/torture_forward.c
tests/client/torture_request_env.c
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cmake/Modules/AddCMockaTest.cmake
cmake/Modules/CheckCCompilerFlagSSP.cmake
cmake/Modules/ExtractSymbols.cmake
cmake/Modules/FindABIMap.cmake
cmake/Modules/FindArgp.cmake
cmake/Modules/FindCMocka.cmake
cmake/Modules/FindGCrypt.cmake
cmake/Modules/FindGSSAPI.cmake
cmake/Modules/FindMbedTLS.cmake
cmake/Modules/FindNSIS.cmake
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1.792 structured-merge-diff 6.3.0

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1.797 libssh 0.9.6-2ubuntu0.22.04.5

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1.800 javax-activation 2.0.1

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Metadata-Version: 2.1
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Version: 21.12
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
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Platform: UNKNOWN

UNKNOWN

Found in path(s):
* /example-21-12-dist-info-zip/inputdir/packages_extracted/wheel/127/example-21.12.dist-info/METADATA

1.803 bcutil-fips 2.0.5

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1.804 json-iterator-go 1.1.12

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1.805 go-difflib 1.0.1-0.20181226105442-5d4384ee4fb2

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1.806 gogo-protobuf 1.3.2

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Protocol Buffers for Go with Gadgets

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

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1.807 cobra 1.10.1

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1.808 xxhash 2.3.0

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1.809 prometheus-client 1.22.0

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/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr/etc/ssl/certs/ca-certificates.crtadding nil Certificate to CertPoolx509: unknown public key algorithmx509: invalid certificate

policies%s %q is excluded by constraint %qx509: Ed25519 verification failurex509: unhandled critical extensionproto: duplicate enum registered: bad pointer in byte slice case in protobuf tag not enough fields in illegal base64 data at input byte invalid values filter function: %Tsend byte stream ended without EOFcgroups: unable to remove paths %sfailed to unmarshal raw result: %winvalid version %q: too many parts%q: failed to open for writing: %v%q: failed to open for reading: %vio.containerd.cgroups.v1.BlkIOStatio.containerd.cgroups.v1.RdmaEntrygoogle.protobuf.Struct.FieldsEntryloopy Writer exiting with error: %vtransport: error while dialing: %vtransport: Error while dialing: %vReceived unsupported
frame type %Tgot too many pings from the clientGRPC_GCP_OBSERVABILITY_CONFIG_FILEinternal error: block too big (%d)betterFastEncoder: Reset with dictrequested skippable frame (%d) < 8crypto/rsa: missing public moduluscrypto/des: invalid buffer overlapcrypto/aes: invalid buffer overlapcrypto/rc4: invalid buffer overlapmlkem: invalid polynomial encodinginvalid padding bits in BIT STRINGtable array key cannot contain ']'invalid nested repetition operatorinvalid or unsupported Perl syntaxbad tag in lazy extension decodingmismatching field: got %v, want %vexpected value size %v, got %v: %wBPF_PROG_ATTACH atomic replacementattempted to parse unknown event: did not find expected node contentinvalid length of a UTF-8 sequencecontrol characters are not allowedyaml_PARSE_BLOCK_MAPPING_KEY_STATEvarint,63006,opt,name=gostring_allvarint,63007,opt,name=populate_allvarint,63008,opt,name=stringer_allvarint,63016,opt,name=benchgen_allgogoproto.goproto_unrecognized_allvarint,63030,opt,name=typedecl_allvarint,63031,opt,name=enumdecl_allgoogle.protobuf.Value.number_valueerror
setting option on socket: %vcrypto/rsa: public modulus is evenextendedGCD: both a and m are evenGODEBUG sys/cpu: can not disable "chacha20: wrong HChaCha20 key size/usr/lib/modules/%s/kernel/vmlinux%T does not satisfy Type interfacecan't read type info for id %v: %vout of bounds access of target: %wstring table isn't null terminatedCPU spec doesn't start at zero: %sgiven pinning path cannot be emptygoogle.protobuf.FieldOptions_CType&descriptor.ExtensionRangeOptions{&descriptor.MethodDescriptorProto{duration (%v) exceeds -10000 yearsduration (%v) exceeds +10000 yearsinvalid rnglist offset %d (max %d)%s: offset %d out of range; max %dextraneous data after no sequencesinvalid checksum: got %#x want %#xzstd decompression error at %d: %vunsigned integer overflow on token 17763568394002504646778106689453125888178419700125232338905334472656 25ryuFtoaFixed32 called with prec > 9" is unexported but missing PkgPathreflect.MakeSlice
of non-slice typepersistentalloc: align is too large/memory/classes/heap/released:bytesgreyobject: obj not pointer-alignedmismatched begin/end of activeSweepmheap.freeSpanLocked - invalid freefailed to get or create weak handleattempt to clear non-empty span setruntime: close polldesc w/o unblockruntime: inconsistent read deadlinefindrunnable: netpoll with spinningpidleput: P has non-empty run queuetraceback did not unwind completelynetwork dropped connection on resettransport endpoint is not connectedfile type does not support deadline2006-01-02T15:04:05.999999999Z07:00non-positive interval for NewTickerInclude the image in the checkpointRestore a container from checkpointEdit a blob and return a new digestedit a blob and return a new digestdry run, no changes will be applied[flags] <name> [<key>=<value>, ...]Tag an image for use in containerd.Directory used for storing IO FIFOslabels snapshots in the snapshotterMedia type to use for creating diffspecify an exec-id or all; not
bothstorage.write_count_normalized %d

Found in path(s):
* unknown locationhost unreachableAlready ReportedMultiple ChoicesPayment RequiredUpgrade RequiredContent-Length: invalid address hostLookupOrder=non-IPv4 addressnon-IPv6 addressunknown network no colon on lineapparmor_profileSCMP_ARCH_X86_64inotify_rm_watchmap_shadow_stackprocess_mreleaseremap_file_pagestimer_getoverrunutimensat_time64process_vm_readvThrottleWriteBpsThrottleReadIOPSinvalid host: %wRuntimeKernelNS:WorkingSetBytes:AvailableMemory:/proc/self/fd/%dbinary.BigEndianunclosed

commentapplication/grpcdial %s:
timeoutGNU.sparse.majorGNU.sparse.minorlayer.media.typelayer.media.sizehttp.status_codeno
renegotiationSignatureScheme(XXX_unrecognizedduration<string> has nil elementgoogle/protobuf/regexp:
Compile(short response: Content-Languageedition_defaultsunknown type:
%Ttotal_pgmajfaultoom_kill_disableinvalid major %dinvalid minor
%dslab_reclaimableCAP_SYS_RESOURCECAP_MAC_OVERRIDERETENTION_SOURCETARGET_TYPE_FI
LETARGET_TYPE_ENUMquoted-printableapplication/jsonWww-Authenticateinvalid
encodinginvalid ip:port invalid AddrPortinvalid dns nameRCodeFormatErrorunpacking
headerSOAResource.MBoxCNI_CONTAINERID=MemoryOomControlTotalMappedFile:TotalPgMajFault:TotalA
ctiveAnon:TotalActiveFile:IoTimeRecursive:RequestTypeUrl: ResponseTypeUrl:&types.Duration{ServerName:
%q, Attributes: %v, <stream: %p, %v>^{h(?::(\d+))?}$^{m(?::(\d+))?}$out of range: %qCRC check failedinvalid
code: %dTLSv1.3-SHA2-256TLSv1.2-SHA2-256length too largeinvalid rune %#Udivision by
zeroInstRuneAnyNotNL/.dbus-keyrings/dst: %s off: %d get map info: %wbatch update: %wbatch delete:
%wfreezing map: %wcan't marshal %Tattach %s/%s: %wload program: %wPinNonePinByNameunknown event
%dDuplicated key 'yaml_VALUE_TOKENyaml_ALIAS_TOKEN
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd
lexLeftBracket ApplyWithError *cli.ExitError GlobalDuration GlobalIntSlice *cli.AfterFunc SkipArgReorder
ExitErrHandler *cli.ExitCoder/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-
amd64-tar-gz/bin/containerd uncheckedPutSlot *unicode.Range16
*unicode.Range32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerd decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-
amd64-tar-gz/bin/containerd currentTokenStart *cli.IntSliceFlag GlobalStringSlice RunAndExitOnError
VisibleCategories/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerd *func() *v1.Probe *v1.ProcMountType *v1.StorageMedium
*v1.EndpointsList/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerd putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-
amd64-tar-gz/bin/containerd putSlotSmallFast64/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-
7-29-linux-amd64-tar-gz/bin/containerd GetSlabReclaimable *stats.HugeTlbStat GetMessageEncoding
GetIdentifierValue GetEditionDefaults GetClientStreaming GetServerStreaming GetCsharpNamespace
GetObjcClassPrefix GetLeadingComments IsDelimitedEncoded
*filedesc.Messages/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerd putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-
linux-amd64-tar-gz/bin/containerd putSlotSmallFastStr *unsafeheader.Slice
*unicode.RangeTable/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerd *timeseries.tsLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-
amd64-tar-gz/bin/containerd GetSlabUnreclaimable GetWorkingsetRefault GetEditionDeprecated
GetEditionIntroduced GetCcGenericServices GetJavaMultipleFiles GetPyGenericServices *pragma.DoNotCompare
*filedesc.Extensions/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerd *pflag.intSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-
linux-amd64-tar-gz/bin/containerd
*pflag.uintSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerd *[]*timeseries.tsLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-
linux-amd64-tar-gz/bin/containerd *func(*v1.EndpointsList) *v1.PersistentVolumeMode *v1.TypedObjectReference
*v1.HostPathVolumeSource/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-
tar-gz/bin/containerd *func()

*v1.EndpointsList *v1.EphemeralVolumeSource/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd *rdt.catPctRangeAllocation DisableMemStatsLikeMetrics *procfs.ConntrackStatEntry *procfs.NetIPSocketSummary/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd

Found
in path(s):
* UintSliceVarP
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd /opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim putSlotSmallFast64 *chacha8rand.State Width /opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1 uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1 decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1 putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1 putSlotSmallFast64 *chacha8rand.State *stats.HugetlbStat *stats.MemoryEntry GetTotalActiveAnon GetTotalActiveFile GetTotalMappedFile GetTotalPgMajFault GetIoTimeRecursive *stats.NetworkStat *stats.CgroupStats Width /opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 putSlotSmallFast64 *chacha8rand.State *stats.HugetlbStat *stats.MemoryEntry GetTotalActiveAnon GetTotalActiveFile GetTotalMappedFile GetTotalPgMajFault GetIoTimeRecursive *stats.NetworkStat *stats.CgroupStats Width /opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress /opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr

Found
in path(s):
* lazyInitSlow
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress

Found in path(s):
* GetAddDigest initSloww7
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr

Found in path(s):
* *snapshots.snapshotsListClient
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd

Found in path(s):
* UintSliceVar
* Snapshotter
* C_DeriveKey
* UintSliceP
* PublicKeyData
* StringToInt
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd/etc/ssl/certs/ca-certificates.crtadding nil Certificate to CertPoolx509: unknown public key algorithmx509: invalid certificate policies%s %q is excluded by constraint %qx509: Ed25519 verification failurex509: unhandled critical extensiontimeout waiting for client prefacehttp2: aborting request body writehttp: connection has been hijackedhttp: persistConn.readLoop exitinghttp: read on closed response bodystream error: stream ID %d; %v;
%vframe_settings_window_size_too_bigframe_windowupdate_zero_inc_streamnewWriterAndRequestNoBody(%+v): %v%s matches the same requests as %shttp: MultipartReader called twicehttp: invalid Content-Length of %qBaseContext returned a nil contextunsupported authentication method Could not enable CPU profiling: %sunexpected %q message received: %wcannot commit on closed writer: %wcgroups: unable
to remove paths %smsb not set in last word %#x of %sexpected exactly %d bits of resultRat.GobEncode: numerator too largeflag provided but not defined: -%sfailed to get file info for %s: %wexecutable file not found in $PATHillegal base64 data at input byte loopyWriter exiting with error: %vtransport: error while dialing: %vtransport: Error while dialing: %vReceived unsupported frame type %Tgot too many pings from the clientGRPC_GCP_OBSERVABILITY_CONFIG_FILEsnapshot garbage collection failednamespace must already be requiredcreation date must not be zero: %w%w; rollback unmap also failed: %vbolt.DB.meta(): invalid meta pagesinvalid childAt(%d) on a leaf nodedereference: zero-length inode keycontainerd.io/defaults/snapshotterapplier must be provided to unpackfailed to resolve reference %q: %w/containerd.task.v3.Task/ResizePtymethod AddResource not implementedcontainerd.services.tasks.v1.Tasksunexpected unsupported metric kindlabel name %q missing in label mapfailed to drain exec process
%s iofailed to drain init process %s iocannot pause task in created statefailed to start binary process: %wrecvfd: number of fds is not 1: %dnumber for the log level verbositylog: exiting because of error: %s

Found in path(s):
* invalid code: %d/.dbus-keyrings/dst: %s off: %d get map info: %wbatch update: %wbatch delete: %wfreezing map: %wcan't marshal %Tattach %s/%s: %wload program: %wPinNonePinByNameRETENTION_SOURCETARGET_TYPE_FILETARGET_TYPE_ENUMgoogle/protobuf/unknown field %v

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

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd|*func(context.Context, container.Container, *v1.UpdateContainerResourcesRequest, container.Status) (container.Status, error)
IoTimeRecursivelprotobuf:"bytes,7,rep,name=io_time_recursive,json=ioTimeRecursive,proto3" json:"io_time_recursive,omitempty"
SlabReclaimablelprotobuf:"varint,16,opt,name=slab_reclaimable,json=slabReclaimable,proto3" json:"slab_reclaimable,omitempty"
WorkingSetByteslprotobuf:"bytes,2,opt,name=working_set_bytes,json=workingSetBytes,proto3" json:"working_set_bytes,omitempty"
MajorPageFaultslprotobuf:"bytes,7,opt,name=major_page_faults,json=majorPageFaults,proto3" json:"major_page_faults,omitempty"
ResponseTypeUrllprotobuf:"bytes,4,opt,name=response_type_url,json=responseTypeUrl,proto3" json:"response_type_url,omitempty"/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/abi.(*FuncType).OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*Map).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*Map).putSlotSmall/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*Map).putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*Map).putSlotSmallFast64/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*Map).putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*Map).putSlotSmallFastStr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*table).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*table).uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdruntime.userArenaHeapBitsSetSliceType/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdruntime.notetsleep_internal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdruntime.notetsleep/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdruntime.notetsleepg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdruntime.printslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdruntime.runqputslow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdruntime.convTslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdruntime.nextslicecap/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdsync.(*Pool).getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-

linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[interface {},interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdreflect.cvtSliceArrayPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdreflect.cvtSliceArray/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdtime.digitsLen/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[*internal/abi.Type,interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[net/netip.addrDetail,weak.Pointer[net/netip.addrDetail]]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdunique.(*uniqueMap[net/netip.addrDetail]).internal/sync.initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap2/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).XXX_Marshal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).XXX_Merge/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).XXX_Size/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).XXX_DiscardUnknown/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).Marshal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).MarshalTo/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).MarshalToSizedBuffer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).Size/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).Unmarshal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.EndpointsList.SwaggerDoc/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).DeepCopyInto/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).DeepCopy/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).DeepCopyObject/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetContinue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetListMeta/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetObjectKind/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetRemainingItemCount/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetResourceVersion/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetSelfLink/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GroupVersionKind/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetContinue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetGroupVersionKind/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetRemainingItemCount/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetResourceVersion/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetSelfLink/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SwaggerDoc/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*boolSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*durationSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*float32SliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*float64SliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*int32SliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*int64SliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).Set/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).Type/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).Append/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).Replace/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.intSliceConv/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).GetIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).IntSliceVar/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.newIntSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).IntSliceVarP/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).IntSliceP/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*ipSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*stringArrayValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*stringSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).Set/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).Type/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).fromString/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).toString/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).Append/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).Replace/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.uintSliceConv/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).GetUintSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).UintSliceVar/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.newUintSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).UintSliceVarP/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).UintSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).UintSliceP/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdtype:.eq.github.com/spf13/pflag.uintSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdtype:.eq.github.com/spf13/pflag.intSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11._Cfunc_GetSlotInfo/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11._Cfunc_GetSlotList/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11.(*Ctx).GetSlotList/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/containerdgithub.com/miekg/pkcs11.(*Ctx).GetSlotList.func1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11.(*Ctx).GetSlotInfo/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11.(*Ctx).GetSlotInfo.func1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11.(*Ctx).GetSlotInfo.func3/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11.(*Ctx).GetSlotInfo.func2/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgolang.org/x/crypto/openpgp/packet.subpacketsLength/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim
getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim prepare InCount IsBlank InSlice
PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim initSlow Protocol Flowinfo Scope_id CoreDump Signaled Nsignals
CgroupFD/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim waitRead PtrBytes OutCount Embedded
OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim

Found
in path(s):
* NumberValuefprotobuf:"fixed64,2,opt,name=number_value,json=numberValue,proto3,oneof" json:"number_value,omitempty"
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr

Found in path(s):
* PushBackList initSlow@@
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress
getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress matchH2 PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress initSlow TryRLock
Truncate/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress setFlags IntSlice NumFlags
FullName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress typeSlow PtrBytes OutCount SlotSize Embedded
OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress

Found in path(s):
*

Memory that is completely free and has been returned to the underlying system. This metric is the runtime's estimate of free address space that is still mapped into the process, but is not backed by physical memory.The `untrusted_workload_runtime` property of [plugins."io.containerd.grpc.v1.cri".containerd] is deprecated since containerd v1.2 and will be removed in containerd v2.0. Create an `untrusted` runtime in `runtimes` instead.Estimated total CPU time spent performing GC tasks. This metric is an overestimate, and not directly comparable to system CPU time measurements. Compare only with other /cpu/classes metrics. Sum of all metrics in /cpu/classes/gc.Estimated total CPU time spent performing background tasks to return unused memory to the underlying platform. This metric is an overestimate, and not directly comparable to system CPU time measurements. Compare only with other /cpu/classes metrics.The `otlp` property of `[plugins."io.containerd.tracing.processor.v1".otlp]` is deprecated since containerd v1.6 and will be removed in containerd v2.0.Use OTLP environment variables instead: https://opentelemetry.io/docs/specs/otel/protocol/exporter/
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd matchH2 PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd testRun Section Symbols GetAnon GetFile GetSlab GetSock GetRios GetWios GetHigh GetLazy GetWeak GetSpan/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd setFlags Duration IntSlice NumFlags FullName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd runtimes ListPids Transfer Warnings GetIoGid GetIoUid Describe PtrBytes OutCount SlotSize Embedded OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd nextscan GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd fieldEncs IsNumeric Shorthand AddGoFlag BytesHexP CountVarP DurationP GetString GetUint16 GetUint32 GetUint64 IPMaskVar IPNetVarP Int16VarP Int32VarP Int64VarP IntSliceP Uint16Var Uint32V Uint8VarP UintSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd

Found in path(s):
* The contents of the target Secret's Data field will be presented in a volume as files using the keys in the Data field as the file names. Secret volumes support ownership management and SELinux relabeling.NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match a node's labels for the pod to be scheduled on that node. More info: https://kubernetes.io/docs/concepts/configuration/assign-pod-node/MaxLimitRequestRatio if specified, the named resource must have a request and limit that are both non-zero where limit divided by request is less than or equal to the enumerated value; this represents the max burst for the named resource.version is the preferred version of the resource. Empty implies the version of the containing resource list For subresources, this may have a different value, for example: v1 (while inside a v1beta1 version of the core resource's group)".endpointsNamespace is the namespace that contains Glusterfs endpoint. If this field is empty, the EndpointNamespace defaults to the same namespace as the bound PVC. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-podpodIPs holds the IP addresses allocated to the pod. If this field is specified, the 0th entry must match the podIP field. Pods may be allocated at most 1 value for each of IPv4 and IPv6. This list is empty if no IPs have been allocated yet.fsType Filesystem type to mount. Must be a filesystem type supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if

unspecified. More info: https://examples.k8s.io/mysql-cinder-pd/README.mdPodSecurityContext holds pod-level security attributes and common container settings. Some fields are also present in container.securityContext. Field values of container.securityContext take precedence over field values of PodSecurityContext.fsType is the filesystem type to mount. It applies only when the Path is a block device. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". The default value is to auto-select a filesystem if unspecified.Map of string keys and values that can be used to organize and categorize (scope and select) objects. May match selectors of replication controllers and services. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/labelsThe

kind attribute of the resource associated with the status StatusReason. On some operations may differ from the requested resource Kind. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kindsaudience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to the identifier of the apiserver.fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://examples.k8s.io/mysql-cinder-pd/README.mdContainer image name. More info: https://kubernetes.io/docs/concepts/containers/images This field is optional to allow higher level config management to default or override container images in workload controllers like

Deployments and StatefulSets.When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processedEstimated total CPU time spent performing background tasks to return unused memory to the underlying platform. This metric is an overestimate, and not directly comparable to system CPU time measurements. Compare only with other /cpu/classes metrics.APIVersion defines the version of this resource that this field set applies to. The format is "group/version" just like the top-level APIVersion field. It is necessary to track the version of a field set because it cannot be automatically converted.The `otlp` property of `[plugins."io.containerd.tracing.processor.v1".otlp]` is deprecated since containerd v1.6 and will be removed in containerd v2.0.Use OTLP environment variables instead: https://opentelemetry.io/docs/specs/otel/protocol/exporter/Template

is the object that describes the pod that will be created if insufficient replicas are detected. This takes precedence over a TemplateRef. More info: https://kubernetes.io/docs/concepts/workloads/controllers/replicationcontroller#pod-templateReplicas is the number of desired replicas. This is a pointer to distinguish between explicit zero and unspecified. Defaults to 1. More info: https://kubernetes.io/docs/concepts/workloads/controllers/replicationcontroller#what-is-a-replicationcontrollermedium represents what type of storage medium should back this directory. The default is "" which means to use the node's default medium. Must be an empty string (default) or Memory. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydirmatchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains

only "value". The requirements are ANDed.singularName is the singular name of the resource. This allows clients to handle plural and singular opaquely. The singularName is more correct for reporting status on a single item and both singular and plural are allowed from the kubectl CLI interface.
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shiminternal/runtime/maps.(*Map).putSlotSmall/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shiminternal/runtime/maps.(*Map).putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shiminternal/runtime/maps.(*Map).putSlotSmallFast64/opt/cola/permits/2755514083_1767864947.916622/0/contai

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v1sync.(*Pool).getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1internal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1internal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1time.digitsLen/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-
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v1google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-
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v1internal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1internal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1internal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1internal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-

v1github.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1github.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 prepare PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 testRun Section Symbols GetAnon GetFile GetSlab GetSock GetRios GetWios GetHigh Mutable EndLine Imports Default ValueOf Prepare Console/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 initSlow TryRLock Truncate/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 closedMu PtrBytes OutCount SlotSize Embedded OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 /opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/abi.(*FuncType).OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/runtime/maps.(*Map).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/runtime/maps.(*Map).putSlotSmall/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/runtime/maps.(*Map).putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/runtime/maps.(*Map).putSlotSmallFast64/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/runtime/maps.(*Map).putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/runtime/maps.(*Map).putSlotSmallFastStr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/runtime/maps.(*table).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/runtime/maps.(*table).uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2runtime.notetsleep_internal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2runtime.notetsleep/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2runtime.notetsleepg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2runtime.printslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2runtime.runqputslow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2runtime.convTslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2runtime.nextslicecap/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2sync.(*Pool).getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/containerd-shim-runc-v2internal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2time.digitsLen/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2reflect.cvtSliceArrayPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2reflect.cvtSliceArray/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2google.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2google.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2google.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2google.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2google.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2google.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap2/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2internal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2github.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlab/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-

v2github.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlabReclaimable/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-
v2github.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlabUnreclaimable/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-
v2github.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-
v2github.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-
v2github.com/pkg/errors.StackTrace.formatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-
v2golang.org/x/net/internal/timeseries.(*tsLevel).Clear/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-
v2golang.org/x/net/internal/timeseries.(*tsLevel).InitLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).GetUsage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).CloseSend/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.ApplyWithError.func1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stresstype:.ngtSLJZs/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressunique.(*uniqueMap[net/netip.addrDetail]).internal/sync.initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SendHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSlice).Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[*internal/abi.Type,interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/runtime/maps.(*Map).putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.consumeFloatSlice·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/runtime/maps.(*Map).putSlotSmall/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressruntime.userArenaHeapBitsSetSliceType/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.lookupIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo:itab.*github.com/urfave/cli.IntSlice,flag.Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-

stressgoogle.golang.org/protobuf/internal/impl.appendFloatSliceValue·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressreflect.cvtSliceArrayPtr·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetTrailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*Context).GlobalIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressruntime.notetsleep/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.TakesValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.CloseSend/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo:itab.*github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer,github.com/containerd/containerd/api/services/snapshots/v1.Snapshots_ListServer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressreflect.cvtSliceArray·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/sync.(*HashTrieMap[net/netip.addrDetail,weak.Pointer[net/netip.addrDetail]]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stresstype:.bzyrtslS/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/runtime/maps.(*Map).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo.opentelemetry.io/otel/attribute.Key.IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Send/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressruntime.printslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.notetsleepg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo:itab.github.com/urfave/cli.IntSliceFlag,github.com/urfave/cli.Flag/opt/cola/permits/2755514083_17678649

47.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo.opentelemetry.io/otel/attribute.(*Key).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stresssync.(*Pool).getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.convTslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.sizeFloatSliceValue·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.GetName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.sizeFloatSlice·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/runtime/maps.(*Map).putSlotSmallFast64/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stresstype:.wIhTSLA3/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.consumeFloatSliceValue·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSlice).Get/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.interface
{},go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Header/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressreflect.cvtSliceArray/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo.opentelemetry.io/otel/attribute.IntSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stresstype:.TSlM5s91/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[interface
{},interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.IsRequired/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressreflect.cvtSliceArrayPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.struct
{ net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u
unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/abi.(*FuncType).OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-

linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.coderFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.stringifyIntSliceFlag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Trailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/sync.(*HashTrieMap[go.shape.struct
{ net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer
}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgolang.org/x/net/internal/timeseries.(*tsLevel).InitLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/runtime/maps.(*table).uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressruntime.runqputslow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSlice).Set/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Header/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface
{}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressruntime.notetsleep_internal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stresstype:VLtSlwTj/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/runtime/maps.(*Map).putSlotSmallFastStr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*Context).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-

stresstype:.P45ETtSL/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.coderFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/gogo/protobuf/proto.(*pointer).getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSlice).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).GetName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).IsRequired/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo:itab.*github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient,github.com/containerd/containerd/api/services/snapshots/v1.Snapshots_ListClient/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Recv/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap2/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgolang.org/x/net/internal/timeseries.(*tsLevel).Clear/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.GetUsage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stresstype:5X0bCTSL/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetTrailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/runtime/maps.(*table).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2755514083_1767864947.

916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.appendFloatSlice·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/runtime/maps.(*Map).putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Trailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).TakesValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stresstype:.5gtURtSl/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgoogle.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressinternal/sync.(*HashTrieMap[go.shape.interface
{},go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.struct
{ net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer
}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stress\u%04XX25519%w%.0wnetdnsdomaingophertelnetreturn.locallisten.onionndots:sendtoip+netsocketwritevrdtscppopcntcmd/go_countnotify%s #%d%%%02Xgrpclb%gseventslatestSTRINGFile: Name: Type: Lazy: Weak: Path: Span: .protoCLOSEDPACKEDVERIFYPersonrandomFutureexec: better (new)client%w: %s0.45.0ip_tcpip_udpinprocdeviceHEADERno '/'defineAES-NIsecretAnswerTypeNSTypeMXLengthMBox: SerialExpireMinTTLPort: WeightTargetlogger_total#
namecryptokernelmdstatbitmapresynclinearfstypecgroupfdinfolimitssys/vm

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress *[1]v1.Descriptor *namespaces.Store *cli.DurationFlag *cli.IntSliceFlag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress putSlotSmallFast64
*chacha8rand.State/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress putSlotSmallFastStr
WithCallStackHelper/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress *timeseries.tsLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-

linux-amd64-tar-gz/bin/containerd-stress
*[]*timeseries.tsLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress *func(interface
{}) string DisableMemStatsLikeMetrics *procfs.ConntrackStatEntry
*procfs.NetIPSocketSummary/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr ApplyWithError
*cli.Int64Flag *cli.BoolTFlag *cli.ExitError GlobalDuration GlobalIntSlice *cli.AfterFunc SkipArgReorder
ExitErrHandler *cli.ExitCoder/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr *os.processStatus *cli.DurationFlag
*cli.IntSliceFlag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr putSlotSmallFast64 *chacha8rand.State *containerd.Client
*containerd.Status/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr *tasks.tasksClient XXX_DiscardUnknown *stats.HugetlbStat *stats.MemoryEntry GetTotalActiveAnon
GetTotalActiveFile GetTotalMappedFile GetTotalPgMajFault GetIoTimeRecursive *stats.NetworkStat
*stats.CgroupStats GetSlabReclaimable
*stats.HugeTlbStat/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr putSlotSmallFastStr
*unsafeheader.Slice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr *timeseries.tsLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr *[]*stats.BlkIOEntry GetIoMergedRecursive GetIoQueuedRecursive GetNrUninterruptible
GetSlabUnreclaimable GetWorkingsetRefault/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr
*[]*timeseries.tsLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr

Found
in path(s):
* *cli.IntSlice
No license file was found, but licenses were detected in source scan.

internal/runtime/maps.(*Map).putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/miekg/pkcs11.(*Ctx).GetSlotList/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*float64SliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).XXX_Merge/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).Append/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).MarshalToSizedBuffer/opt/cola/permits/2755514083_1767864

947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).Size/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.IntSliceFlag.ApplyWithError.func1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetResourceVersion/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).Type/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.struct
{ net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct {
weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer
}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.consumeFloatSlice·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).DeepCopyInto/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdreflect.cvtSliceArrayPtr·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdruntime.userArenaHeapBitsSetSliceType/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.IntSliceFlag.TakesValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdtype:.bzyrtslS/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetResourceVersion/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetRemainingItemCount/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdtype:28kATsl0/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdreflect.cvtSliceArray·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11._Cfunc_GetSlotList.abi0/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgo:itab.*github.com/spf13/pflag.uintSliceValue,github.com/spf13/pflag.Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetObjectKind/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).Marshal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetTrailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgo.opentelemetry.io/otel/attribute.Key.IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdruntime.printslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-

amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).XXX_Marshal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).IntSliceP/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgo:itab.github.com/urfave/cli.IntSliceFlag,github.com/urfave/cli.Flag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).IntSliceVarP/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.IntSliceFlag.GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*ipSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*int64SliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdsigs.k8s.io/structured-merge-diff/v4/value.convertSliceNumbers/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Send/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.sizeFloatSlice·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetRemainingItemCount/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).Unmarshal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.consumeFloatSliceValue·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.IntSliceFlag.String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[interface {},interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/abi.(*FuncType).OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*float32SliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/apimachinery/pkg/api/meta.objectSliceType/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).ProtoMessage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11._Cfunc_GetSlotInfo.abi0/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11._cgo_c4fd6099d396_Cfunc_GetSlotList/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/containerdgithub.com/urfave/cli.(*IntSliceFlag).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdruntime.runqputslow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetContinue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdinternal/runtime/maps.(*table).uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).Type/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetSelfLink/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.struct
{ net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.IntSliceFlag.Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Header/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Trailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdtype:.P45ETtSL/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdruntime.notetsleep_internal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).GetUintSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.IntSliceFlag.ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdinternal/runtime/maps.(*Map).putSlotSmallFastStr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetSelfLink/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.coderFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.(*IntSliceFlag).GetName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.struct
{ net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer
}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).XXX_Size/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.uintSliceConv/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).XXX_Unmarshal/opt/cola/permits/2755514083_1767864947.

916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdtype:9nPtSLsI/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).DeepCopy/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/pkg/errors.StackTrace.formatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgo:itab.*k8s.io/api/core/v1.EndpointsList,k8s.io/apimachinery/pkg/runtime.Object/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/apiserver/pkg/endpoints/metrics.requestSloLatencies/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.intSliceConv·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.EndpointsList.SwaggerDoc/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap2/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).toString/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.appendFloatSlice·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).UintSliceVarP/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*stringArrayValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SetGroupVersionKind/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.(*IntSliceFlag).Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Recv/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdtype:.rtSLmH3Y/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.(*IntSliceFlag).GetUsage/opt/cola/permits/2755514083_1767864947.91662

2/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdtype:.ngtSLJZs/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgo:itab.*github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient,github.com/containerd/containerd/api/services/snapshots/v1.Snapshots_ListClient/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdk8s.io/api/core/v1.xxx_messageInfo_EndpointsList/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).Append/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Trailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).Replace/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetTrailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdtype:4tSlLVsI/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.(*IntSlice).Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*Map).putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdunique.(*uniqueMap[net/netip.addrDetail]).internal/sync.initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.lookupIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetContinue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgo:itab.*github.com/urfave/cli.IntSlice,flag.Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*Map).putSlotSmall/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.(*Context).GlobalIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.(*IntSliceFlag).GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/miekg/pkcs11.(*Ctx).GetSlotInfo/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).fromString/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.appendFloatSliceValue·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdruntime.notetsleep/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*int32SliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.(*IntSliceFlag).ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).CloseSend/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdinternal/sync.(*HashTrieMap[*internal/abi.Type,interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SendHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GroupVersionKind/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdinternal/runtime/maps.(*Map).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.uintSliceConv·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdruntime.notetsleepg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).UintSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.CloseSend/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*durationSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgo:itab.*github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer,github.com/containerd/containerd/api/services/snapshots/v1.Snapshots_ListServer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*stringSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlab/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*uintSliceValue).Set/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdsync.(*Pool).getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*boolSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdruntime.convTslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap1/opt/cola/permi

ts/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgo.opentelemetry.io/otel/attribute.(*Key).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).XXX_DiscardUnknown/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.IntSliceFlag.GetName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdtype:.wIhTSLA3/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.sizeFloatSliceValue·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/pkg/errors.(*StackTrace).formatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*Map).putSlotSmallFast64/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[net/netip.addrDetail,weak.Pointer[net/netip.addrDetail]]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.(*IntSlice).Get/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgo:itab.*github.com/spf13/pflag.intSliceValue,github.com/spf13/pflag.Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdtype:RUTCtslo/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdtype:.TSlM5s91/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdreflect.cvtSliceArray/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.IntSliceFlag.IsRequired/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdreflect.cvtSliceArrayPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdk8s.io/api/core/v1.map_EndpointsList/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgo.opentelemetry.io/otel/attribute.IntSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.stringifyIntSliceFlag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).GetIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.coderFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).Set/opt/cola/permits/2755514083_1767864947.916622/0/

containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgolang.org/x/net/internal/timeseries.(*tsLevel).InitLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).MarshalTo/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).SwaggerDoc/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).GetListMeta/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).Reset/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.(*IntSlice).Set/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlabReclaimable/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdtype:VLtSlwTj/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).IntSliceVar/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlabUnreclaimable/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.(*Context).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgo:itab.*k8s.io/api/core/v1.EndpointsList,github.com/gogo/protobuf/proto.Message/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/apiserver/pkg/endpoints/metrics.requestSliLatencies/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.(*IntSlice).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/miekg/pkcs11._cgo_c4fd6099d396_Cfunc_GetSlotInfo/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/urfave/cli.(*IntSliceFlag).IsRequired/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Header/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).GetSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).DeepCopyObject/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2755514083_1767864

947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/gogo/protobuf/proto.(*pointer).getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.IntSliceFlag.GetUsage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdtype:5X0bCTSL/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdk8s.io/api/core/v1.(*EndpointsList).Descriptor/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).UintSliceP/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgolang.org/x/net/internal/timeseries.(*tsLevel).Clear/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*FlagSet).UintSliceVar/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.intSliceConv/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/spf13/pflag.(*intSliceValue).Replace/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdinternal/runtime/maps.(*table).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdtype:.5gtURtSl/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgithub.com/urfave/cli.(*IntSliceFlag).TakesValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdgoogle.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdfinishedSHA1-RSADSA-SHA1DEK-InfoDNS namememstatsfont/ttffont/otfhijackedNO_ERRORPRIORITYSETTINGSLocation data=%q incr=%v ping=%qif-matchlocationhttp/1.1bad_flowprioritybad_pathHTTP/2.0Trailer:%s_%s_%sdisjointoverlapsboundaryHTTP/1.1no-cacheContinueAcceptedConflictresponseRECEIVED%d %d %d%d:%d %dcpu.statkmem.tcprss_hugeoom_kill%d %d %snet_priopids.maxrdma.maxblock-%danon_thppgrefillhugetlb..currentdurationClassANYQuestionTypeAAAATypeAXFROpCode: Length: Serial: Expire: MinTTL: Weight: Target: PriorityinternalCanceledNotFoundInternalDataLossINTERNALreiserfssquashfstemplate%.10q...{{else}}%s:%d:%deditionsoptionalrequiredrepeatedOptionalRequiredRepeatedsfixed32sfixed64BoolKindEnumKindKind(%d)balancerSHUTDOWNchannelz%s -> %strailershttps://code: %smax_idleerrs<10serrs<10merrs<10hall timedistTmpl%s=ro+whdirperm1modprobe%s %s:%d%s/%d/%sfreelistseek: %sPlatform%s-%d-%d%d:%d:%dcompleteplatformstreamidShutdown-addressexpectedDomain%dScan: %vReserved[%s]:

%vListPidsmkparentTransfercpu_userquantile/tasks/?-workdirShimInfolog.jsondump.logpty.sock--detach--bundle--formatlog_fileCriuPath/etc/cdiMetadatarprivateclass://hostnamedummy://image.idmetadataCreatingResumingRemovingmkfs.xfsmkfs:

Found in path(s):
* /containerd-1-7-29-linux-amd64-tar-gz/bin/containerd
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2GODEBUG sys/cpu: can not enable "scalar has high bit set illegallywrite existing socket for shim: %w: day-of-year does not match monthin \u hexadecimal character escapeexpected comma after array elementexecutable file not found in $PATHslice bounds out of range [:%x:%y]slice bounds out of range [%x:%y:]SIGURG: urgent condition on socketruntime: standard file descriptor out of memory allocating allArenas/memory/classes/heap/objects:bytesruntime.SetFinalizer: cannot pass too many pages allocated in chunk?mspan.ensureSwept: m is not lockedruntime: netpollBreak write failedforEachP: sched.safePointWait != 0schedule: spinning with local workentersyscallblock inconsistent bp entersyscallblock inconsistent sp runtime: g is running but p is notinvalid timer channel: no capacitytoo many references: cannot splicecgroups:
unable to remove paths %scould not get free loop device: %wcould not open loop device: %s: %wfailed to set loop device info: %wfailed to drain exec process %s iofailed to drain init process %s iocannot pause task in created statefailed to start binary process: %wrecvfd: number of fds is not 1: %dunexpected %q message received: %wflag provided but not defined: -%stimeout %v for cmd(pid=%d): %s, %sbytes: Join output length overflowillegal base64 data at input byte reflect: Method index out of rangereflect: ChanDir of non-chan type reflect: Field of non-struct type reflect: Field index out of boundsreflect.FuncOf: too many argumentsreflect.StructOf: duplicate field " is anonymous but has PkgPath setreflect: string index out of rangereflect: recv on send-only channelreflect: send on recv-only channelreflect.Value.Grow: slice overflow355271367880050092935562133789062 5BPF_PROG_ATTACH atomic replacementgrpc: message too large (%d bytes)invalid values filter function: %Tprotobuf tag not
enough fields in /usr/lib/modules/%s/kernel/vmlinux%T does not satisfy Type interfacecan't read type info for id %v: %vout of bounds access of target: %wstring table isn't null terminatedCPU spec doesn't start at zero: %sgiven pinning path cannot be emptybad tag in lazy extension decodingmismatching field: got %v, want %vTLS_ECDHE_RSA_WITH_AES_128_CBC_SHATLS_ECDHE_RSA_WITH_AES_256_CBC_SHAloopyWriter exiting with error: %vtransport: error while dialing: %vtransport: Error while dialing: %vReceived unsupported frame type %Tgot too many pings from the clientGRPC_GCP_OBSERVABILITY_CONFIG_FILEstream error: stream ID %d; %v; %vframe_settings_window_size_too_bigframe_windowupdate_zero_inc_stream%s matches the same requests as %shttp: MultipartReader called twiceextraneous data after no sequencesinvalid checksum: got %#x want %#xzstd decompression error at %d: %vinvalid nested repetition operatorinvalid or unsupported Perl syntax/etc/ssl/certs/ca-certificates.crtadding nil Certificate to CertPoolx509:
unknown public key algorithmx509: invalid certificate policies%s %q is excluded by constraint %qx509: Ed25519 verification failurex509: unhandled critical extensiongoogle.protobuf.Value.number_valueerror setting option on socket: %vcrypto/aes: invalid buffer overlapcrypto/rsa: missing public modulusinvalid padding bits in BIT STRINGduration (%v) exceeds -10000 yearsduration (%v) exceeds +10000 yearscan't evaluate field %s in type %scan't handle %s for arg of type %svalue is nil; should be of type %scrypto/rsa: public modulus is evenextendedGCD: both a and m are evenGODEBUG sys/cpu: can not disable "chacha20: wrong HChaCha20 key size2006-01-02T15:04:05.000000000Z07:002006-01-02T15:04:05.999999999Z07:00non-positive interval for NewTickerunsigned integer overflow on token persistentalloc: align is too large/memory/classes/heap/released:bytesgreyobject: obj not pointer-alignedmismatched begin/end of activeSweepmheap.freeSpanLocked - invalid freefailed to get or create weak handleattempt

to clear non-empty span setruntime: close polldesc w/o unblockruntime: inconsistent read deadlinefindrunnable: netpoll with spinningpidleput: P has non-empty run queuetraceback did not unwind completelynetwork dropped connection on resettransport endpoint is not connectedcgroups: pid must be greater than 0could not open backing file: %s: %wmount helper [%s %v] failed: %q: %wcannot checkpoint a deleted processcannot delete a deleted process: %wcannot resume task in created statepipe: failed to close read pipe: %wrecvfd: number of SCMs is not 1: %dttrpc: error marshaling payload: %vError while reading from Writer: %svarint,63300,opt,name=fieldpath_allos/signal: Notify using nil channelfailed to verify handle %v/%v %v/%vstrings.Reader.Seek: invalid whence" is unexported but missing PkgPathreflect.MakeSlice of non-slice type1776356839400250464677810668945312588817841970012523233890533447265625ryuFtoaFixed32 called with prec > 9file type does not support deadlineorg.freedesktop.DBus.Properties.Getdbus:
invalid authentication statusdbus: authentication protocol errororg.freedesktop.DBus.Introspectableinput exceeds container depth limitinput has a not-utf8 char in stringinput exceeds array size limitationorg.freedesktop.DBus.Properties.Set64bit immediate has non-zero fieldsbad escape sequence %q: not a digittoo many Questions to pack (>65535)proto: internal error: bad wiretypeduration: %#v: seconds out of rangebad type for XXX_extensions field: protobuf tag field not an integer: file %q has a name conflict over %vfound wrong type: got %v, want enumencoding/hex: odd length hex stringtype %s: multiple candidates for %Tinvalid type of the initial sectionstring field contains invalid UTF-8%v already implements proto.Message'_' must separate successive digitsTLS_ECDHE_RSA_WITH_3DES_EDE_CBC_SHAgrpc.internal.transport.networktypeGRPC_ALTS_MAX_CONCURRENT_HANDSHAKESCONTINUATION frame with stream ID 0there is an empty key in the headerliterals Huffman stream out of bitsx509:
malformed extension OID fieldx509: wrong Ed25519 public key sizex509: invalid authority info access%s: none of the oneof fields is sethpack: invalid Huffman-encoded datadynamic table size update too largeflate: corrupt input before offset mime: bogus characters after %%: %qsha3: invalid hash state identifierdelimiters may only be "{}" or "<>"ecdsa: invalid signature: r is zeroecdsa: invalid signature: s is zerocrypto/md5: invalid hash state sizesuperfluous leading zeros in lengthrange can only initialize variablesexpected unsigned integer; found %snon-comparable types %s: %v, %s: %vP224 point is the point at infinityP256 point is the point at infinityP384 point is the point at infinityP521 point is the point at infinitycrypto/rsa: public exponent is evenbigmod: modulus is smaller than natbigmod: modulus for Exp must be oddchacha20: output smaller than inputtransform: short destination buffergrpc address back to main containerd%q: unix socket path too long (> %d)reflect: NumField of non-struct
typeTime.UnmarshalBinary: invalid lengthjson: encoding error for type %q: %qsyntax error scanning complex numberpidDeactivate called in invalid modelfstack node allocated from the heap) is larger than maximum page size (runtime: invalid typeBitsBulkBarrieruncaching span but s.allocCount == 0/memory/classes/metadata/other:bytes/sched/pauses/stopping/other:secondsuser arena span is on the wrong listruntime: marked free object in span runtime: unblock on closing polldescruntime: inconsistent write deadlineruntime: netpoll: eventfd ready for runtime: sudog with non-nil waitlinkruntime: mcall called on m->g0 stackfatal: recursive switchToCrashStack

Found in path(s):
* unknown locationAlready ReportedMultiple ChoicesPayment RequiredUpgrade RequiredContent-Length: out of range: %qFSE sym overflowInstRuneAnyNotNLinvalid encodingquoted-printableContent-Language
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2

Found in path(s):
* *codes.Code

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

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd *pkcs11._Ctype_CK_C_GetSlotList/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd *pkcs11._Ctype_CK_C_GetSlotInfo/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdN*func(*timeseries.tsLevel, time.Time, time.Time, int, []timeseries.Observable) /opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd*func(context.Context, *libcni.NetworkConfigList, *libcni.RuntimeConf) (types.Result, error) PodAntiAffinityLjson:"podAntiAffinity,omitempty" protobuf:"bytes,3,opt,name=podAntiAffinity" PreferAvoidPodsLjson:"preferAvoidPods,omitempty" protobuf:"bytes,1,rep,name=preferAvoidPods" ResourceVersionLjson:"resourceVersion,omitempty" protobuf:"bytes,6,opt,name=resourceVersion" ResourceVersionLjson:"resourceVersion,omitempty" protobuf:"bytes,4,opt,name=resourceVersion" ConfigMapKeyRefLjson:"configMapKeyRef,omitempty" protobuf:"bytes,3,opt,name=configMapKeyRef" KubeletEndpointLjson:"kubeletEndpoint,omitempty" protobuf:"bytes,1,opt,name=kubeletEndpoint" DaemonEndpointsLjson:"daemonEndpoints,omitempty" protobuf:"bytes,6,opt,name=daemonEndpoints" StoragePolicyIDLjson:"storagePolicyID,omitempty" protobuf:"bytes,4,opt,name=storagePolicyID" VolumeNamespaceLjson:"volumeNamespace,omitempty" protobuf:"bytes,2,opt,name=volumeNamespace" ResourceVersionLjson:"resourceVersion,omitempty" protobuf:"bytes,1,opt,name=resourceVersion" ResourceVersionLjson:"resourceVersion,omitempty" protobuf:"bytes,2,opt,name=resourceVersion" OperatorSjson:"operator" protobuf:"bytes,2,opt,name=operator,casttype=LabelSelectorOperator"/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerdr*struct { F uintptr; X0 *interface {}; X1 *bool; X2 *go.shape.string; X3 *func() go.shape.string; X4 *[3]uintptr } /opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressN*func(*timeseries.tsLevel, time.Time, time.Time, int, []timeseries.Observable) /opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress{*struct { F uintptr; X0 *[]archive.tarRecord; X1 content.Provider; X2 *archive.blobRecordOptions; X3 map[string]struct {} } SampleCountFloatjprotobuf:"fixed64,4,opt,name=sample_count_float,json=sampleCountFloat" json:"sample_count_float,omitempty" WorkingSetByteslprotobuf:"bytes,2,opt,name=working_set_bytes,json=workingSetBytes,proto3" json:"working_set_bytes,omitempty" MajorPageFaultslprotobuf:"bytes,7,opt,name=major_page_faults,json=majorPageFaults,proto3" json:"major_page_faults,omitempty" SourceDateEpochlprotobuf:"bytes,6,opt,name=source_date_epoch,json=sourceDateEpoch,proto3" json:"source_date_epoch,omitempty" SourceDateEpochlprotobuf:"bytes,2,opt,name=source_date_epoch,json=sourceDateEpoch,proto3" json:"source_date_epoch,omitempty" SourceDateEpochlprotobuf:"bytes,3,opt,name=source_date_epoch,json=sourceDateEpoch,proto3" json:"source_date_epoch,omitempty"/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/abi.(*FuncType).OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/runtime/maps.(*Map).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/runtime/maps.(*Map).putSlotSmall/opt/cola/permits/2755514083_1767864947.916622/0/containerd-

1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/runtime/maps.(*Map).putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/runtime/maps.(*Map).putSlotSmallFast64/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/runtime/maps.(*Map).putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/runtime/maps.(*Map).putSlotSmallFastStr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/runtime/maps.(*table).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/runtime/maps.(*table).uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.userArenaHeapBitsSetSliceType/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.notetsleep_internal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.notetsleep/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.notetsleepg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.printslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.runqputslow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.convTslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressruntime.nextslicecap/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stresssync.(*Pool).getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[interface {},interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stresstime.digitsLen/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressreflect.cvtSliceArrayPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressreflect.cvtSliceArray/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[*internal/abi.Type,interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string

},go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressinternal/sync.(*HashTrieMap[net/netip.addrDetail,weak.Pointer[net/netip.addrDetail]]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressunique.(*uniqueMap[net/netip.addrDetail]).internal/sync.initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgoogle.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgoogle.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgoogle.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgoogle.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgoogle.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgoogle.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap2/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgolang.org/x/net/internal/timeseries.(*tsLevel).Clear/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgolang.org/x/net/internal/timeseries.(*tsLevel).InitLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/gogo/protobuf/proto.(*pointer).getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Recv/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Send/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.CloseSend/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).CloseSend/opt/cola/permit

s/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Context/opt/cola/permits/275
5514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Context/opt/cola/permits/2
755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Header/opt/cola/permits/2755
514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Header/opt/cola/permits/27
55514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.RecvMsg/opt/cola/permits/27
55514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).RecvMsg/opt/cola/permits/
2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.SendMsg/opt/cola/permits/27
55514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).SendMsg/opt/cola/permits/
2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Trailer/opt/cola/permits/2755
514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Trailer/opt/cola/permits/27
55514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.Context/opt/cola/permits/275
5514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Context/opt/cola/permits/2
755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.RecvMsg/opt/cola/permits/27
55514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).RecvMsg/opt/cola/permits
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stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendHeader/opt/cola/permits/
2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
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stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendMsg/opt/cola/permits/27
55514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SendMsg/opt/cola/permits/
2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetHeader/opt/cola/permits/2
755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetHeader/opt/cola/permit
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stressgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetTrailer/opt/cola/permits/2
755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetTrailer/opt/cola/permits
/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo.opentelemetry.io/otel/attribute.Key.IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/container
d-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo.opentelemetry.io/otel/attribute.IntSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containe

rd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo.opentelemetry.io/otel/attribute.(*Key).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgo.opentelemetry.io/otel/attribute.IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.stringifyIntSliceFlag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSlice).Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSlice).Set/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSlice).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSlice).Get/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.GetName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.IsRequired/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.TakesValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.GetUsage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.IntSliceFlag.ApplyWithError.func1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*Context).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*Context).GlobalIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.lookupIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.isIntSliceEqual/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.removeFromIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stresstype:.eq.github.com/urfave/cli.IntSliceFlag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-
stressgithub.com/urfave/cli.(*IntSliceFlag).ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/c

ontainerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/urfave/cli.(*IntSliceFlag).GetName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/urfave/cli.(*IntSliceFlag).GetUsage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/urfave/cli.(*IntSliceFlag).GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/urfave/cli.(*IntSliceFlag).IsRequired/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/urfave/cli.(*IntSliceFlag).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stressgithub.com/urfave/cli.(*IntSliceFlag).TakesValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).GetUsage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).CloseSend/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.ApplyWithError.func1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrtype:.ngtSLJZs/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrunique.(*uniqueMap[net/netip.addrDetail]).internal/sync.initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SendHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.(*IntSlice).Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[*internal/abi.Type,interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.consumeFloatSlice·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmall/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.userArenaHeapBitsSetSliceType/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.lookupIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgo:itab.*github.com/urfave/cli.IntSlice,flag.Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.appendFloatSliceValue·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrreflect.cvtSliceArrayPtr·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-

amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetTrailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*Context).GlobalIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrruntime.notetsleep/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface
{}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.TakesValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.CloseSend/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgo:itab.*github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer,github.com/containerd/containerd/api/services/snapshots/v1.Snapshots_ListServer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrreflect.cvtSliceArray·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/sync.(*HashTrieMap[net/netip.addrDetail,weak.Pointer[net/netip.addrDetail]]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrtype:.bzyrtslS/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.struct
{ net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u
unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*Map).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgo.opentelemetry.io/otel/attribute.Key.IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlab/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Send/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrruntime.printslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.notetsleepg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgo:itab.github.com/urfave/cli.IntSliceFlag,github.com/urfave/cli.Flag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgo.opentelemetry.io/otel/attribute.(*Key).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/co

ntainerd-1-7-29-linux-amd64-tar-gz/bin/ctrsync.(*Pool).getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.convTslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.sizeFloatSliceValue·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.GetName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.sizeFloatSlice·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmallFast64/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrtype:.wIhTSLA3/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.consumeFloatSliceValue·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.(*IntSlice).Get/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Header/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrreflect.cvtSliceArray/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgo.opentelemetry.io/otel/attribute.IntSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrtype:RUTCtslo/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrtype:.TSlM5s91/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[interface {},interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.IsRequired/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrreflect.cvtSliceArrayPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/abi.(*FuncType).OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.coderFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/ctrgithub.com/urfave/cli.stringifyIntSliceFlag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Trailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.struct
{ net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer
}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlabReclaimable/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgolang.org/x/net/internal/timeseries.(*tsLevel).InitLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*table).uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrruntime.runqputslow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSlice).Set/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlabUnreclaimable/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Header/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface
{}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmallFastStr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/ctrtype:.P45ETtSL/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.coderFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/gogo/protobuf/proto.(*pointer).getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSlice).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).GetName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).IsRequired/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgo:itab.*github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient,github.com/containerd/containerd/api/services/snapshots/v1.Snapshots_ListClient/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Recv/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap2/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgolang.org/x/net/internal/timeseries.(*tsLevel).Clear/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.GetUsage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrtype:5X0bCTSL/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetTrailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*table).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.appendFloatSlice·f/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Trailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).TakesValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrtype:.5gtURtSl/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrfinishedSHA1-RSADSA-SHA1DNS namehttps://trailers_defaultinternalprotobuf/* %v */type_urlbad inst[%s]:
%vReceivededitionsoptionalrequiredrepeatedOptionalRequiredRepeatedsfixed32sfixed64BoolKindEnumKindKind(%d)Ignore()[%d->%d]library/%s-%d-%sreiserfssquashfs%d %d %dpasswordusername%d:%d
%dcpu.statkmem.tcprss_hugeoom_kill%d %d %snet_priopids.maxrdma.maxblock-
%danon_thppgrefillhugetlb..currentEXPLICITIMPLICITEXPANDEDfilenameif-rangeNO_PROXYno_proxyClassANYQuestionTypeAAAATypeAXFROpCode:
Length: Serial: Expire: MinTTL: Weight: Target: Priority%s-%s-%s
name=%qquantityBinarySIPidsStatRdmaStatHugetlb:Network:Failcnt:Current:CPUUsageThrottlePeriods:RSSHuge:PgPgOut:PgFault:OomKill:RxBytes:TxBytes:TypeUrl:Mixins: Syntax:
Methods:Options:Version:&Method{DurationFields: Values: &Struct{Oneofs: Number: Packed: &Option{SHA2-256balancerSHUTDOWNchannelz%s -> %scode: %smax_idleerrs<10serrs<10merrs<10hall
timedistTmplDomain%dScan: %vReservedoffsets:producerconsumerhttp.urlexporterECDH
PCT2.5.4.102.5.4.112.5.4.17KeyGroup(%d, %d)proto: %v%v:
%vInstFailInstRune[:word:]opPseudo#fips140CTR_DRBG%d to %d_UNKNOWNSHA2-512SubStateREJECTED
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrN*func(*timeseries.tsLevel, time.Time, time.Time, int, []timeseries.Observable)
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/abi.(*FuncType).OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*Map).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmall/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmallFast32/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmallFast64/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrinternal/runtime/maps.(*Map).putSlotSmallFastStr/opt/cola/permits/2755514083_1767864947.916622/0/c

ontainerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/runtime/maps.(*table).PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/runtime/maps.(*table).uncheckedPutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.userArenaHeapBitsSetSliceType/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.notetsleep_internal/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.notetsleep/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.notetsleepg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.printslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.runqputslow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.convTslice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrruntime.nextslicecap/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrsync.(*Pool).getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.interface {},go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[interface {},interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrreflect.cvtSliceArrayPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrreflect.cvtSliceArray/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrtime.digitsLen/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/gogo/protobuf/proto.(*pointer).getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.*internal/abi.Type,go.shape.interface {}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[*internal/abi.Type,interface {}]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*net/netip.addrDetail; weak.u unsafe.Pointer }]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer }]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-

tar-gz/bin/ctrinternal/sync.(*HashTrieMap[go.shape.struct
{ net/netip.isV6 bool; net/netip.zoneV6 string },go.shape.struct { weak._ [0]*go.shape.struct { net/netip.isV6 bool; net/netip.zoneV6 string }; weak.u unsafe.Pointer
}]).initSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrinternal/sync.(*HashTrieMap[net/netip.addrDetail,weak.Pointer[net/netip.addrDetail]]).initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrunique.(*uniqueMap[net/netip.addrDetail]).internal/sync.initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap2/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgoogle.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.deferwrap1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgolang.org/x/net/internal/timeseries.(*tsLevel).Clear/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgolang.org/x/net/internal/timeseries.(*tsLevel).InitLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Recv/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Send/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.CloseSend/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).CloseSend/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Header/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Header/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Context/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).RecvMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendMsg/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetHeader/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetTrailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetTrailer/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgo.opentelemetry.io/otel/attribute.Key.IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgo.opentelemetry.io/otel/attribute.IntSliceValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/ctrgithub.com/urfave/cli.stringifyIntSliceFlag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSlice).Value/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/ctrgithub.com/urfave/cli.(*IntSlice).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.GetUsage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.IntSliceFlag.ApplyWithError.func1/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*Context).IntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*Context).GlobalIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.lookupIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.isIntSliceEqual/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.removeFromIntSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrtype:.eq.github.com/urfave/cli.IntSliceFlag/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).Apply/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).ApplyWithError/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
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gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).GetUsage/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).GetValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).IsRequired/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).String/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/ctrgithub.com/urfave/cli.(*IntSliceFlag).TakesValue/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlab/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlabReclaimable/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-
gz/bin/ctrgithub.com/containerd/cgroups/v3/cgroup2/stats.(*MemoryStat).GetSlabUnreclaimable

Found
in path(s):
* *snapshots.snapshotsListServer
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim putSlotSmallFastStr *specs.LinuxBlockIO *specs.LinuxNetwork *specs.LinuxSeccomp *specs.LinuxSyscall *specs.VMHypervisor/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shimv`0/13MPZ5^yxt []), i))(tvrRuUeEaAlLsS01bBoOxX+-nNiIfFpP??ip53]:->: ..|0|1
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1 GetSlabReclaimable *stats.HugeTlbStat/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1
putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1 putSlotSmallFastStr GetThrottledPeriods GetTotalUnevictable GetSectorsRecursive GetMemoryOomControl *specs.LinuxBlockIO *specs.LinuxNetwork *specs.LinuxSeccomp *specs.LinuxSyscall *specs.VMHypervisor/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1 GetSlabUnreclaimable
GetWorkingsetRefault/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-
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\d\D\s\S\w\W\E:]/i<<>>&^+=-=*=/=%=&=|=^=&&||++--<=>=:=goif%v -idpidlognil01_EOFPWD../finptrobjgc %: gp *(in n= - NaN P m= MPC=], < end > ...]:
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 GetSlabReclaimable *stats.HugeTlbStat *protoreflect.Name *protoreflect.Kind *protoreflect.List/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2
putSlotSmallFastPtr/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 putSlotSmallFastStr GetThrottledPeriods GetTotalUnevictable GetSectorsRecursive GetMemoryOomControl *specs.LinuxBlockIO *specs.LinuxNetwork *specs.LinuxSeccomp *specs.LinuxSyscall *specs.VMHypervisor GetUnitTypeProperty ListUnitsByPatterns
ReloadOrRestartUnit/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2
*timeseries.tsLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2 GetSlabUnreclaimable GetWorkingsetRefault *protoreflect.MapKey *protoreflect.Syntax/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2
*[]*timeseries.tsLevel/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-

gz/bin/containerd-shim-runc-v2\u%04Xavx512rdrandrdseednil
keyaddressruntimeunix://SwapperTuesdayJanuaryOctobernumber booleanbdoUxXvintegercomplexfloat32float64
(trap writeatreaddirforcegcallocmWcpuprofallocmRunknowngctraceIO
waitrunningsyscallwaitingforevernetworkUNKNOWN:events, goid= s=nil

Found in path(s):
* json:"names" *specs.SolarisAnet
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v1
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-shim-runc-v2
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/containerd-stress
/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr

Found in path(s):
* putSlotSmall
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr
getSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr
matchH2 PutSlot/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr
setPath RawPath Marshal GetUser GetSwap GetPids GetRdma GetAnon GetFile GetSlab GetSock GetRios GetWios
GetHigh/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr
setFlags Duration IntSlice NumFlags FullName/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr initSlow/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr padbytes PtrBytes OutCount SlotSize Embedded
OutSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr
getSlice/opt/cola/permits/2755514083_1767864947.916622/0/containerd-1-7-29-linux-amd64-tar-gz/bin/ctr

Found
in path(s):
* The `otlp` property of `[plugins."io.containerd.tracing.processor.v1".otlp]` is deprecated since containerd v1.6 and will be removed in containerd v2.0.Use OTLP environment variables instead:
https://opentelemetry.io/docs/specs/otel/protocol/exporter/

1.811 python-ldap 3.4.5

1.811.1 Available under license :

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1.812 x-sync 0.18.0

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1.813 x-sys 0.38.0

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1.814 openjdk-jre 1.8.0u472

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1.815 jdk-zulu 8.90.0.19-1

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1.816 x-net 0.47.0

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1.817 x-text 0.31.0

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1.818 tomcat 9.0.112

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- javaee_5.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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org.apache.tomcat.util.json.JSONParser.jj is
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for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
 - javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
```

in the Corefile
 SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
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==========
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========

The common/types/pb/equal.go modification of proto.Equal logic

==========

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1.828 x-term 0.37.0

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1.829 x-crypto 0.45.0

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1.831 jdk-zulu 8.90.0.19

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1.832 pflag 1.0.10

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1.833 python3.10 3.10.12-1~22.04.12

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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 https://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 https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

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

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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jar/ch/qos/logback/core/encoder/ByteArrayUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/encoder/EchoEncoder.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/encoder/Encoder.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/encoder/EncoderBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/encoder/JsonEscapeUtil.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/encoder/LayoutWrappingEncoder.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/encoder/NonClosableInputStream.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/filter/EvaluatorFilter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/filter/Filter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/helpers/CyclicBuffer.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/helpers/NOPAppender.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/helpers/Transform.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/hook/DefaultShutdownHook.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/hook/ShutdownHook.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/hook/ShutdownHookBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/html/CssBuilder.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/html/HTMLLayoutBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/html/IThrowableRenderer.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/html/NOPThrowableRenderer.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/GenericXMLConfigurator.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/JoranConfiguratorBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/JoranConstants.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/ModelClassToModelHandlerLinkerBase.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/Action.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/ActionUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/AppenderRefAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/BaseModelAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/ContextPropertyAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/ConversionRuleAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/DefinePropertyAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/EventEvaluatorAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/ImcplicitActionDataForBasicProperty.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/ImplicitModelAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/ImplicitModelData.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/ImplicitModelDataForComplexProperty.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/joran/action/ImportAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/IncludeAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/NOPAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/NewRuleAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/ParamAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/PreconditionValidator.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/PropertyAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/SequenceNumberGeneratorAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/SerializeModelAction.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/ShutdownHookAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/SiftAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/StatusListenerAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/action/TimestampAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/conditional/Condition.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/conditional/ElseAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/conditional/IfAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/conditional/ThenAction.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/event/BodyEvent.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/event/EndEvent.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/event/SaxEvent.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/event/SaxEventRecorder.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/event/StartEvent.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/joran/node/ComponentNode.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/sanity/AppenderWithinAppenderSanityChecker.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/sanity/SanityChecker.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/ActionException.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/ConfigurationWatchList.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/DefaultClass.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/DefaultNestedComponentRegistry.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/ElementPath.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/ElementSelector.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/EventPlayer.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/JoranException.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/NoAutoStart.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/NoAutoStartUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/RuleStore.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/SaxEventInterpretationContext.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/SaxEventInterpreter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/spi/XMLUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/joran/util/ParentTag_Tag_Class_Tuple.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/layout/EchoLayout.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/AppenderModel.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/AppenderRefModel.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/ComponentModel.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/EventEvaluatorModel.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/InsertFromJNDIModel.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/ModelHandlerFactoryMethod.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/ShutdownHookModel.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/SiftModel.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/StatusListenerModel.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/processor/AppenderModelHandler.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/processor/AppenderRefDependencyAnalyser.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/processor/DefaultProcessor.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/processor/DefineModelHandler.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/processor/ModelInterpretationContext.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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jar/ch/qos/logback/core/model/processor/ShutdownHookModelHandler.java/**
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jar/ch/qos/logback/core/model/processor/conditional/ElseModelHandler.java/**
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
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/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/model/util/TagUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/AbstractSSLSocketAppender.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/AbstractSocketAppender.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/AutoFlushingObjectWriter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/DefaultSocketConnector.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/HardenedObjectInputStream.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/LoginAuthenticator.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ObjectWriter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ObjectWriterFactory.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/QueueFactory.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/net/SMTPAppenderBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/SocketConnector.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/SyslogAppenderBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/SyslogConstants.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/SyslogOutputStream.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/AbstractServerSocketAppender.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/Client.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/ClientVisitor.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/RemoteReceiverClient.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/RemoteReceiverServerListener.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/RemoteReceiverServerRunner.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/SSLServerSocketAppenderBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/ServerListener.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/ServerRunner.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/server/ServerSocketListener.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/KeyStoreFactoryBean.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/SSL.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/SSLComponent.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/SSLConfigurable.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/net/ssl/SSLConfigurableServerSocket.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/SSLConfigurableSocket.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/SSLConfiguration.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/SSLContextFactoryBean.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/SSLNestedComponentRegistryRules.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/SSLParametersConfiguration.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/net/ssl/TrustManagerFactoryFactoryBean.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/CompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/Converter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/ConverterUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/DynamicConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/FormatInfo.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/LiteralConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/PatternLayoutBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/PatternLayoutEncoderBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/PostCompileProcessor.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/ANSIConstants.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/BlackCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/BlueCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/BoldBlueCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/ForegroundCompositeConverterBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/pattern/color/GrayCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/GreenCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/MagentaCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/WhiteCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/color/YellowCompositeConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/parser/Compiler.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/parser/Node.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/parser/Parser.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/parser/Token.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/parser/TokenStream.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/util/AsIsEscapeUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/util/IEscapeUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/pattern/util/RestrictedEscapeUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/property/FileExistsPropertyDefiner.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/property/ResourceExistsPropertyDefiner.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/read/CyclicBufferAppender.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/read/ListAppender.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/recovery/RecoveryCoordinator.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/recovery/RecoveryListener.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/recovery/ResilientFileOutputStream.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/recovery/ResilientOutputStreamBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/DefaultTimeBasedFileNamingAndTriggeringPolicy.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/RollingFileAppender.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/RollingPolicy.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/RollingPolicyBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/RolloverFailure.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/SizeAndTimeBasedRollingPolicy.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/SizeBasedTriggeringPolicy.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicyBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/TriggeringPolicy.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/TriggeringPolicyBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/Compressor.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/DateTokenConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/FileFilterUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/FileNamePattern.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/FileStoreUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/MonoTypedConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/PeriodicityType.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/RenameUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/RollingCalendar.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/rolling/helper/SizeAndTimeBasedArchiveRemover.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/rolling/helper/TokenConverter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/AbstractDiscriminator.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/AppenderFactory.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/AppenderFactoryUsingSiftModel.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/AppenderTracker.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/DefaultDiscriminator.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/Discriminator.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/NOPSiftModelHandler.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/SiftModelHandler.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/SiftProcessor.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/sift/SiftingAppenderBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/AbstractComponentTracker.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/AppenderAttachable.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/ComponentTracker.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/ConfigurationEvent.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/ConfigurationEventListener.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/ContextAware.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/ContextAwareBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/ContextAwareImpl.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/CyclicBufferTracker.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/DeferredProcessingAware.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/spi/ErrorCodes.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/FilterAttachable.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/FilterAttachableImpl.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/FilterReply.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/LifeCycle.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/LogbackLock.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/PreSerializationTransformer.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/PropertyContainer.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/PropertyDefiner.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/spi/ScanException.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/ErrorStatus.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/InfoStatus.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/NopStatusListener.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/OnConsoleStatusListener.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/OnErrorConsoleStatusListener.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/OnPrintStreamStatusListenerBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/Status.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/StatusBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/StatusListener.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/StatusListenerAsList.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/StatusManager.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/StatusUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/ViewStatusMessagesServletBase.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-
jar/ch/qos/logback/core/status/WarnStatus.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/subst/Node.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/subst/NodeToStringTransformer.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/subst/Parser.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/subst/Token.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/subst/Tokenizer.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/CoreTestConstants.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/DelayingListAppender.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/EnvUtilForTests.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/FileTestUtil.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/FileToBufferUtil.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/MockInitialContext.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/MockInitialContextFactory.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/NPEAppender.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/RandomUtil.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/StringListAppender.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/TeeOutputStream.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/testUtil/TrivialStatusListener.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/AggregationType.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/CachingDateFormatter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/CharSequenceState.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/CloseUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/ContentTypeUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/ContextUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-

jar/ch/qos/logback/core/util/DatePatternToRegexUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/DefaultInvocationGate.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/DelayStrategy.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/Duration.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/DynamicClassLoadingException.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/EnvUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/ExecutorServiceUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/FileSize.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/FileUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/FixedDelay.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/IncompatibleClassException.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/JNDIUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/Loader.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/LocationUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/OptionHelper.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/PropertySetterException.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/ReflectionUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/SimpleInvocationGate.java/*
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/StatusListenerConfigHelper.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/StatusPrinter.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/StringCollectionUtil.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/SystemInfo.java/**
/opt/cola/permits/2785043391_1769017072.6416578/0/logback-core-1-3-16-sources-jar/ch/qos/logback/core/util/TimeUtil.java/**

Found

in path(s):
*
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Found in path(s):
* /logback-core-1-3-16-sources-jar/ch/qos/logback/core/Appender.java

1.835 golang 1.25.5

1.835.1 Available under license :

```
// Copyright 2024 The Go Authors. All rights reserved.
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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
```

```
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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27287199
27287880
27287883

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1.836 golang 1.24.11

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```
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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
```

```
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.838 component-base 0.34.2

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
```

```
 s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
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==
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==
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package spec

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`

URL string `json:"url,omitempty"`
}
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https://github.com/golang/protobuf

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Protocol Buffers for Go with Gadgets

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

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1.840 x-crypto 0.46.0

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1.841 urllib3 2.6.2

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1.842 libpng 1.6.37-3ubuntu0.1

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1.846 kubernetes-cliruntime 0.34.2

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```
/*
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* it what you wish.
*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /*
```

```
# of bytes per sector */
uint32_t d_nsectors;  /* # of data sectors per track */
uint32_t d_ntracks;  /* # of tracks per cylinder */
uint32_t d_ncylinders;  /* # of data cylinders per unit */
uint32_t d_secpercyl;  /* # of data sectors per cylinder */
uint32_t d_secperunit;  /* # of data sectors per unit */

/*
 * Spares (bad sector replacements) below
 * are not counted in d_nsectors or d_secpercyl.
 * Spare sectors are assumed to be physical sectors
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
```

```
 uint32_t d_drivedata[5];  /* drive-type specific information */
 uint32_t d_spare[5];  /* reserved for future use */
 uint32_t d_magic2;  /* the magic number (again) */
 uint16_t d_checksum;  /* xor of data incl. partitions */

   /* filesystem and partition information: */
 uint16_t d_npartitions;         /* number of partitions in following */
 uint32_t d_bbsize;         /* size of boot area at sn0, bytes */
 uint32_t d_sbsize;         /* max size of fs superblock, bytes */

 struct bsd_partition  {  /* the partition table */
  uint32_t p_size;         /* number of sectors in partition */
  uint32_t p_offset;       /* starting sector */
  uint32_t p_fsize;        /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed))
 d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
```

```
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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1.848 linux-libc-dev 5.15.0-164.174

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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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1.849 toml 1.5.0

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1.850 systemd 255.4-1ubuntu8.12

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If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we

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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
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derivative of the original library, and the ordinary General Public License
treats it as such.

Because
of this blurred distinction, using the ordinary General
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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
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permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this
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d) Verify that the user has already received a copy of these
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users' freedom, it does ensure that the user of a program that is
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d) If a facility in the modified
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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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

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

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

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

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

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

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source code for the Library including whatever
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user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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1.853 log4j-api 2.25.3

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made under the terms of *both* these licenses.
APPDYNAMICS
END USER LICENSE AGREEMENT

1. SOFTWARE LICENSE.

1.1 LICENSE GRANT.

This End User License Agreement (this Agreement) between AppDynamics LLC, a limited liability company with its principal place of business located at 303 Second Street, North Tower, 8th Floor, San Francisco, CA 94107 (AppDynamics) and the customer set forth in the Order Form (as defined below) (End User) is effective as of the date the initial Order Form is executed or the date this Agreement is referenced by the applicable purchase order (the Effective Date). This Agreement shall govern each order form, sales quotation, proposal, purchase order or other ordering document that references this Agreement (each an Order Form). Each Order Form will form part of this Agreement. Subject to the terms of this Agreement, AppDynamics grants to End User, during the License Term (as defined below), a non-exclusive, non-transferable, non-sublicensable right and license to use AppDynamics software product, including one
Controller (as defined in Exhibit B), as designated in the Order Form(s) (the Software) for internal business purposes only for the quantity of units in the Order Form. The License Term begins on the date AppDynamics delivers the Software license keys to End User and lasts for the period specified in the applicable Order Form (unless terminated earlier in accordance with this Agreement). This Agreement supersedes any other agreement (including any click-through or electronic agreements within the Software) between AppDynamics and End User with respect to the Software. Any references in the Order Form to an agreement or EULA or other similar term shall be deemed to refer to this Agreement.

1.2 RESTRICTIONS ON USE.

AppDynamics Test & Dev Edition licenses shall only be used in test-only non-production environments. Except as otherwise expressly provided in this Agreement, End User shall not (and shall not permit any third party to): (a) sublicense, sell, resell, transfer, assign, distribute,
share, lease, make any external commercial use of, outsource, use on a timeshare or service bureau basis, or use in an application service provider or managed service provider environment, or otherwise generate income from the Software; (b) copy the Software onto any public or distributed network, except for secure cloud computing environments; (c) cause the decompiling, disassembly, or reverse engineering of any portion of the Software, or attempt to discover any source code or other operational mechanisms of the Software (except where such restriction is expressly prohibited by law without the possibility of waiver, and then only upon prior written notice to

AppDynamics); (d) modify, adapt, translate or create derivative works based on all or any part of the Software; (e) use any Third Party Software (as defined below) provided with the Software other than with the Software; (f) modify any proprietary rights notices that appear in the Software or components thereof; (g) publish the results of any benchmarking tests run on any Third Party Software; (h) use the Software in violation of any applicable laws and regulations; (i) use the Software in support of any nuclear proliferation, chemical weapon, biological weapon or missile proliferation activity; (j) configure the Software to collect any (1) social security numbers or other government-issued identification numbers, (2) unencrypted passwords or other authentication credentials, (3) health information, biometric data, genetic data or any other such information subject to HIPAA requirements (4) payment, financial information, or any other such information subject to PCI security standards, (5) any data relating to a person under the age of 13 years old, or (6) any other data that is subject to regulatory or contractual handling requirements pursuant to the Gramm-Leach-Bliley Act) (collectively, Prohibited Data); or (k) use the Software to (1) store, download or transmit infringing, libelous, or otherwise unlawful or tortious material, or malicious code or malware, or (2) engage in phishing, spamming, denial-of-service attacks or other fraudulent or criminal activity, (3) interfere with or disrupt the integrity or performance of third party systems, or the Software or data contained therein, or (4) attempt to gain unauthorized access to the Software or AppDynamics' systems or networks, or (5) perform, or engage any third party to perform, authenticated or unauthenticated penetration testing, vulnerability assessments or other security assessments on the SaaS version of the Software.

1.3 EVALUATION USE.

If End User accesses any software provided by AppDynamics pursuant to a no-fee or beta evaluation (Beta Software), then the License Term is for the period enabled by the license key for the Beta Software. AppDynamics shall have the right to terminate, downgrade, limit or otherwise modify the Beta Software at any time without notice or compensation, and no warranty, indemnity, availability, Maintenance or Support obligations of AppDynamics will apply to Beta Software. End User may use the number and type of licenses enabled by End Users specific license key, but only to test and evaluate the Beta Software for its intended purpose. End User agrees to provide feedback related to the Beta Software as reasonably requested by AppDynamics. End User grants to AppDynamics, without charge, the fully paid-up, perpetual, sublicensable right to exploit such feedback for any purpose. The provision of Beta Software is not a guarantee of future product features or the availability of any future product and should not be relied upon in making any purchasing decisions. The Beta Software is subject to the terms of Section 1.2 (Restrictions on Use) to the same extent as the Software.

1.4 AFFILIATE USE.

Affiliate means, in relation to a party, any entity that directly or indirectly controls, is controlled by, or is under direct or indirect common control with such party, or which is a wholly owned subsidiary of such party, where control means owning, directly or indirectly, at least 51% of the equity securities or equity interests of such entity.

(a) End User Affiliates will have the right to make purchases pursuant to this Agreement by executing an Order Form (or issuing a purchase order referencing an Order Form) and agreeing to be bound by this Agreement. Where an Affiliate makes a purchase pursuant to this Agreement, references to each party in the Agreement shall be read as references to the Affiliate of each party stated on the Order Form. If an End User Affiliate purchases under this Agreement, then a separate Agreement will be deemed made between AppDynamics (or its Affiliate, as applicable) and such End User Affiliate.

(b) End User may also permit Affiliates to use the Software provided that: (1) End User shall procure that its

Affiliates comply with the terms of this Agreement, and End User shall remain liable for all acts and omissions of its Affiliates;
(2) only End User may bring actions against AppDynamics with respect to any losses, damage or liabilities suffered or incurred by any Affiliate caused by the Software; and (3i) the exclusions and limitations of liability in this Agreement will apply to End User and End User Affiliates as a whole, so that they apply to all liabilities incurred under or in connection with this Agreement by AppDynamics to End User and End User Affiliates in aggregate.

1.5 MAINTENANCE AND SUPPORT.

Support is defined as AppDynamics' obligations to respond to support requests as described in Exhibit A (Enterprise Support). Maintenance has the meaning given in the Exhibit A. Subject to End Users payment of the fees set forth in the applicable Order Form(s), AppDynamics will (a) provide Maintenance and Support for the Software; and (b) solely if End User has purchased access to the software-as-a-service version of the Software, provide Availability (as defined in Exhibit B) in accordance with Exhibit B
(Availability). For time-limited licenses for the Software (as set forth in an Order Form, Subscription Licenses), the fees for Maintenance and Support are included in the fees for the Software. For perpetual licenses, (a) AppDynamics shall invoice End User the applicable fees for Maintenance and Support (Maintenance and Support Fees) upon execution of the Order Form, and (b) subject to payment of the Maintenance and Support Fees, AppDynamics will provide Support for the Maintenance and Support period set forth in the Order Form (the Maintenance and Support Term). If Maintenance and Support terminates with respect to any perpetual licenses, then End User may reinstate Maintenance and Support on payment of the cumulative Maintenance and Support Fees applicable for the period during which Maintenance and Support lapsed, plus Maintenance and Support Fees for the reinstated Maintenance and Support Term.

1.6 SERVICES.

AppDynamics will provide training, enablement and/or other services described
in an Order Form (or statement of work referencing this Agreement), if any (Services). The license in Section 1.1 applies to any educational, training and other informational materials resulting from the Services. All Services will be rendered on a time and materials basis. AppDynamics will not exceed the total time purchased without prior written approval from End User. If not used, pre-purchased Services and expenses expire 12 months after the date purchased (unless otherwise agreed in the applicable Order Form). End User agrees to provide reasonable cooperation and information as necessary to permit AppDynamics to perform the Services. End User will reimburse AppDynamics for travel and expenses (at cost) incurred in connection with the Services (if any) by the Invoice Due Date (as defined below). Services will be performed on business days (a business day means Monday through Friday, excluding national holidays, during working hours, in the location where the Services are delivered).
Saturday Services, and hours worked during the week that exceed the local working hours in a week, will only be worked with prior approval from End User and will be charged at 1.5 x the agreed rate. Services performed on Sundays or national holidays will be charged at 2 x the agreed rate. If End User cancels or delays any scheduled Services less than ten business days before the start date of such Services, then AppDynamics will use reasonable efforts to reallocate the resource for the cancelled Services. If AppDynamics is unable to reallocate such resources AppDynamics may deduct from End User's pre-paid Services (or End User will pay for) the amount of Services that were scheduled in any of the ten business days following the date of cancellation (or notification of the delay, as applicable), and End User will fully reimburse AppDynamics for any reasonable travel and expenses incurred by AppDynamics for such Services (and for any Services rescheduled by End User) for which
AppDynamics is unable to obtain a refund.

1.7 EXPORT.

The Software and Documentation are subject to local and extraterritorial export control laws and regulations. Each party will comply with such laws and regulations governing use, export, re-export, and transfer of the Software and Documentation and will obtain all required local and extraterritorial authorizations, permits or licenses.

2. FEES.

2.1 PRICING.

End User will be invoiced for the amounts and set forth in an Order Form (the Fees). If End Users usage of the Software is in excess of those amounts set forth in the Order Form, End User may be billed for those overages. If AppDynamics believes in good faith that End Users usage of the Software exceeds that set forth on the applicable Order Form, for on-premises deployments, End User agrees to report to AppDynamics (or allow AppDynamics to audit) the quantity of Software license units used by End User, upon at least three business days notice. AppDynamics may monitor at any time the quantity of Software license units used by End User for SaaS deployments of the Software.

2.2 PAYMENTS.

End User shall pay invoices within 30 days of the invoice date (the Invoice Due Date). All payment obligations are non-cancelable and all amounts paid are non-refundable, except as otherwise set forth in this Agreement. The Fees are exclusive of any relevant local sales taxes for which End User shall be responsible. AppDynamics shall have no responsibility for any Fees that are not received due to inaccurate or missing information provided by End User. End User shall pay interest on all payments not received by the Invoice Due Date at a rate of 1% per month or the maximum amount allowed by law, whichever is lesser. All amounts due under this Agreement shall be paid by End User in full without any set-off, counterclaim, deduction or withholding (other than any deduction or withholding of tax as required by law). If requested by AppDynamics, End User will obtain and furnish to AppDynamics tax receipts or other certificates issued by the competent taxation office showing the payments of the withholding tax within a reasonable time after payment. Following notice, AppDynamics may suspend End Users access to the Software if payments are not received within 30 days of the Invoice Due Date. If End User purchases the Software, Services or both from an authorized partner of AppDynamics, the payment terms in the agreement between the partner and End User will apply.

3. CONFIDENTIALITY

3.1 SCOPE AND RESTRICTIONS.

Confidential Information means all information of a party (Disclosing Party) disclosed to the other party (Receiving Party) that is identified as confidential at the time of disclosure or should be reasonably known by the Receiving Party to be confidential due to the nature of the information and the circumstances surrounding the disclosure. The Receiving Party will: (a) not use the Disclosing Partys Confidential Information for any purpose outside of this Agreement; (b) not disclose such Confidential Information to any person or entity, other than its affiliates, employees, consultants, agents and professional advisers who have a need to know for the Receiving Party to exercise its rights or perform its obligations hereunder, provided that such affiliates, employees, consultants, and agents are bound by agreements or, in the case of professional advisers, ethical duties respecting such Confidential Information in accordance with the terms of this Section 3; and (c) use reasonable measures to protect the confidentiality of such Confidential Information. If the Receiving Party is required by applicable law or court order

to make any disclosure of such Confidential Information, it will first give written notice of such requirement to the Disclosing Party, and, to the extent within its control, permit the Disclosing Party to intervene in any relevant proceedings to protect its interests in its Confidential Information, and provide
cooperation to the Disclosing Party in seeking to obtain such protection.

3.2 This Section 3 will not apply to information that the Receiving Party can document: (a) was rightfully in its possession or known to it prior to receipt without any restriction on its disclosure; (b) is or has become public knowledge or publicly available through no fault of the Receiving Party; (c) is rightfully obtained by the Receiving Party from a third party without breach of any confidentiality obligation; or (d) is independently developed by employees of the Receiving Party who had no access to such information.

3.3 EQUITABLE RELIEF.

The Receiving Party acknowledges that unauthorized disclosure of the Disclosing Partys Confidential Information could cause substantial harm to the Disclosing Party for which damages alone might not be a sufficient remedy and, therefore, that upon any such disclosure by the Receiving Party, the Disclosing Party may seek appropriate equitable relief in addition to whatever
other remedies it might have at law or equity.

4. PROPRIETARY RIGHTS.

AppDynamics and its suppliers shall retain all intellectual property rights in and to the Software and the results of any Services. Certain free or open source software (the FOSS Software) and third party software are included with the Software (the Third Party Software). A list of the FOSS Software and Third Party Software, and any applicable license terms, is available at https://docs.appdynamics.com/display/DASH/Legal+Notices. The Software and Third Party Software may only be used by End User as prescribed by the AppDynamics documentation located at http://docs.appdynamics.com/ (as it may be updated from time to time, the Documentation).

5. TERM AND TERMINATION.

The term of this Agreement begins on the Effective Date and will remain in effect until all Subscription Licenses (and Maintenance and Support Terms, if applicable) expire or until this Agreement is otherwise terminated in accordance with the terms
hereof, whichever occurs first (the Term). If either party commits a material breach of this Agreement, and such breach has not been cured within 30 days after receipt of written notice thereof, the non-breaching party may terminate this Agreement, except that AppDynamics may immediately terminate this Agreement and/or End Users license to the Software upon End Users breach of Section 1.2(c). Either party may also terminate this Agreement upon written notice if the other party suspends payment of its debts or experiences any other insolvency or bankruptcy-type event. Upon expiration or termination of this Agreement for any reason: (a) with respect to Subscription Licenses, all rights granted to End User shall terminate and End User shall destroy any copies of the Software and Documentation within End Users possession and control; (b) with respect to perpetual licenses, these will survive termination of this Agreement unless AppDynamics terminates the Agreement for End Users breach of this Agreement in which case all rights granted to End User shall terminate and End User shall destroy any copies of the Software and Documentation within End Users possession and control; and (c) each Receiving Party will destroy the Disclosing Partys Confidential Information in the Receiving Partys possession or control. All fees that have accrued as of such expiration or termination, and Sections 1.2, 1.3, 1.4, 2, 3, 4, 5, 6.2 and 8 through 12, will survive any expiration or termination hereof.

6. WARRANTIES.

6.1 LIMITED WARRANTY.

AppDynamics warrants that during the first 30 days following the date the Software is purchased, the Software will, in all material respects, conform to the functionality described in the then-current Documentation for the applicable Software version. AppDynamics sole and exclusive obligation, and End Users sole and exclusive remedy, for a breach of this warranty shall be that AppDynamics shall be required to repair or replace the Software to conform in all material respects to the Documentation, and if AppDynamics is unable to materially restore such functionality within 30 days from the date of written notice of such breach, End User may terminate the license to the affected Software upon written notice and AppDynamics shall promptly provide a pro-rata refund of the Software license fees (or Maintenance and Support Fees, for perpetual licenses) that have been paid in advance for the remainder of the License Term for the applicable Software (beginning on the date of termination). End User must notify AppDynamics in accordance with Section 12 of any warranty breaches within such warranty period, and End User must have installed and configured the Software in accordance with the Documentation to be eligible for the foregoing remedy.

6.2 WARRANTY DISCLAIMER.

Except as expressly provided in this Section 6.1, all software, documentation, maintenance and support and services are provided as is and AppDynamics and its suppliers expressly disclaim any and all other representations and warranties, either express, implied, statutory, or otherwise with respect thereto. AppDynamics expressly disclaims any warranty as to the accuracy or completeness of any information or data accessed or used in connection with the software, documentation, maintenance and support, or services or that the software will be compatible or work with any end user or third party software or hardware. Each party acknowledges that, in entering into this Agreement, it has not relied on, and shall have no right or remedy in respect of, any statement, representation, assurance or warranty (whether made negligently or innocently) other than as expressly set out in this Agreement. The Software is not fault-tolerant and is not designed or intended for use in hazardous environments, including without limitation, in the operation of aircraft or other modes of human mass transportation, nuclear or chemical facilities, life support systems, implantable medical equipment, motor vehicles or weaponry systems, or any other application in which failure of the Software could lead to death or serious bodily injury of a person, or to severe physical or environmental damage (each, a High Risk Use). AppDynamics expressly disclaims any express or implied warranty or representation of fitness for High Risk Use. AppDynamics shall not be liable to End User for any loss, damage or harm suffered by End User that is directly or indirectly caused by End Users unauthorized use of the Software to process Prohibited Data.

7. INDEMNIFICATION.

7.1 BY APPDYNAMICS.

Subject to Section 7.2 and End Users compliance with Section 7.4, AppDynamics agrees at its expense to defend End User against (or, at AppDynamics option, settle), any third party claim to the extent such claim alleges that the Software infringes or misappropriates any patent, copyright, trademark or trade secret of a third party, and AppDynamics shall pay all costs and damages finally awarded against End User by a court of competent jurisdiction as a result of any such claim. If the use of the Software is, or in AppDynamics sole opinion is likely to become, subject to such a claim, AppDynamics, at its option and expense, may (a) replace the applicable Software with functionally equivalent non-infringing technology, (b) obtain a license for End Users continued use of the applicable Software, or (c) terminate the license and provide a pro-rata refund of

the Software license fees (or Maintenance and Support Fees, for perpetual licenses) that have been paid in advance for the remainder of the License Term for the applicable Software (beginning on the date of termination). The foregoing indemnification obligation of AppDynamics will not apply: (a) if the Software is modified by End User or its agent; (b) if the Software is combined with other non-AppDynamics products, applications, or processes, but solely to the extent the alleged infringement is caused by such combination; or (c)
to any unauthorized use of the Software. The foregoing shall be End Users sole remedy with respect to any claim of infringement of third party intellectual property rights.

7.2 BY END USER.

Subject to AppDynamics compliance with Section 7.3, End User agrees to defend, at its expense, AppDynamics and its affiliates, its suppliers and its resellers against any third party claim to the extent such claim arises from or is made in connection with End Users breach of Section 1 or End Users negligence or willful misconduct, and End User shall pay all costs and damages finally awarded against AppDynamics by a court of competent jurisdiction as a result of any such claim.

7.3 INDEMNIFICATION REQUIREMENTS.

The following are conditions to any claim for indemnification under this Section 7. The indemnified party must promptly provide the indemnifying party with notice of any claim that the indemnified party believes is within the scope of the obligation to indemnify, provided, that the failure
to provide such notice shall not relieve the indemnifying party of its obligations under this Section 7, except to the extent that such failure materially prejudices the indemnifying partys defense of such claim. The indemnified party may, at its own expense, assist in the defense if it so chooses, but the indemnifying party shall control the defense and all negotiations related to the settlement of any such claim. Any such settlement intended to bind either party shall not be final without the other partys written consent, which consent shall not be unreasonably withheld, conditioned or delayed; provided that, End Users consent shall not be required when AppDynamics is the indemnifying party if the settlement involves only the payment of money by AppDynamics.

8. LIMITATION OF LIABILITY.

8.1 Subject to Section 8.3, in no event shall either party be liable for any indirect, incidental, special, punitive or consequential damages, including damages for loss of revenues or profits, loss
of use, business interruption, or loss of data, whether in an action in contract or tort (including negligence), even if the other party has been advised of the possibility of such damages.

8.2 Subject to Section 8.1 and 8.3, neither partys liability for any damages (whether for breach of contract, misrepresentations, negligence, strict liability, other torts or otherwise) under this agreement shall exceed an amount equal to 100% of the total fees paid (plus Fees payable) to AppDynamics during the 12 months immediately preceding the claim giving rise to such damages. This limitation of liability is aggregate and not per incident. If End User has made an upfront payment of Fees for the entire License Term, the 100% cap shall be calculated by using 12 times the pro rata monthly fee of the fees paid upfront. These limitations shall apply notwithstanding any failure of essential purpose of any remedy.

8.3 Nothing in this Agreement will limit or exclude either partys liability for: (a)
any other matter which by law may not be excluded or limited; (b) in the case of End User, for (1) breach of Section 1.2 (c); and (2) payment of the Fees.

9. FORCE MAJEURE.

Except for payment obligations, neither party hereto will be liable for defaults or delays due to acts of God or the public enemy, acts or demands of any government or governmental agency, fires, earthquakes, floods, other natural disasters, accidents, or other unforeseeable causes beyond its reasonable control and not due to its fault or negligence.

10. DATA COLLECTION.

10.1 Subject to AppDynamics compliance with data protection laws applicable to it, End User acknowledges that AppDynamics may collect information generated by instrumentation and logging systems created through the use and operation of the Software which AppDynamics may use for its internal business purposes.If End User provides AppDynamics with any personally identifiable information (PII), End User represents and warrants that such information
has been collected in accordance with the provisions of all applicable data protection legislation and that End User has all right and consents necessary to provide such PII to AppDynamics.

10.2 If End User is subject to Regulation 2016/679 of the European Parliament and of the Council on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), the terms of Exhibit C shall apply.

11. US GOVERNMENT MATTERS.

As defined in FAR section 2.101, the Software and Documentation are commercial items and according to DFAR section 252.227 7014(a)(1) and (5) are deemed to be commercial computer software and commercial computer software documentation. Consistent with DFAR section 227.7202 and FAR section 12.212, any use modification, reproduction, release, performance, display, or disclosure of such commercial software or commercial software documentation by the
U.S. Government will be governed solely by the terms of this Agreement and will be prohibited except to the extent expressly permitted by the terms of this Agreement.

12. MISCELLANEOUS.

This Agreement shall be governed by and construed under the laws of the State of California, U.S.A. Failure by either Party to exercise any of its rights under, or to enforce any provision of, this Agreement will not be deemed a waiver or forfeiture of such rights or ability to enforce such provision. If any provision of this Agreement is held by a court of competent jurisdiction to be illegal, invalid or unenforceable, such provision will be amended to achieve as nearly as possible the same economic effect of the original provision and the remainder of this Agreement will remain in full force and effect. This Agreement and its exhibits, together with the Order Form(s) and any statements of work incorporating this Agreement, if applicable, represent the entire agreement between the parties and supersede
any previous or contemporaneous oral or written agreements or communications regarding the subject matter of this Agreement. The person signing or otherwise accepting this Agreement for each party represents that s/he is duly authorized by all necessary and appropriate corporate action to enter this Agreement. Any modification to this Agreement must be in writing and signed by a duly authorized signatory of both parties and no previous, contemporaneous or future oral statements will be deemed to modify this Agreement. Neither the Uniform Commercial Code (UCC) nor the Uniform Computer Information Transactions Act (UCITA) will apply to this Agreement. This Agreement shall control over additional or different terms of any purchase order, confirmation,

invoice, statement of work or similar document (other than an AppDynamics Order Form, which will take precedence), even if accepted in writing by both parties, and waivers and amendments to this Agreement shall be effective only if made
by non-pre-printed agreements clearly understood by both parties to be an amendment or waiver to this Agreement. For purposes of this Agreement, including means including without limitation. The rights and remedies of the parties hereunder will be deemed cumulative and not exclusive of any other right or remedy conferred by this Agreement or by law or equity. No joint venture, partnership, employment, or agency relationship exists between the parties as a result of this Agreement or use of the Software. AppDynamics reserves the right to perform its obligations from locations and/or through use of affiliates and subcontractors, worldwide, provided that AppDynamics will be responsible for such parties. End User may not assign this Agreement without the prior written approval of AppDynamics and any purported assignment in violation of this section shall be void; AppDynamics may assign, transfer or subcontract this Agreement in whole or in part. Upon any assignment of this Agreement by End
User that is approved by AppDynamics, any licenses that contain an unlimited aspect will, with respect to End User or the successor entity, as applicable, be capped at the number of authorized Software units in use immediately prior to such assignment. End User agrees that AppDynamics may refer to End User by its trade name and logo, and may briefly describe End Users business, in AppDynamics marketing materials and website. AppDynamics may give notice to End User by electronic mail to End Users email address on record in End Users account information, or by letter sent by nationally recognized overnight delivery service to End Users address on record in End Users account information. End User may give notice to AppDynamics at any time by letter sent by nationally recognized overnight delivery service or first class postage prepaid mail to AppDynamics at the following address or such other address as may be notified to End User from time to time: AppDynamics, 303 Second Street, North
Tower, 8th Floor, San Francisco, CA 94107, Attn: Legal Department. Notice under this Agreement shall be deemed given: (a) when received, if personally delivered; (b) when receipt is electronically confirmed, if transmitted by email; (c) the next business day after it is sent, if sent by first class postage prepaid post; (d) five business days following postage if sent by pre-paid mail; and (e) upon receipt, if sent by certified or registered mail, return receipt requested.

EXHIBIT A

ENTERPRISE SUPPORT

GENERAL REQUIREMENTS.

AppDynamics will provide access to a ticketing system that will be available 24 hours per day, seven days per week. The ticketing system will be maintained by qualified support specialists, who shall provide technical support regarding the Software.

ERROR CLASSIFICATION.

Any reported errors are classified in the following manner, in each case when caused by the Software:

Error Classification	Criteria
Urgent	End User production application is down or there is a major malfunction, resulting in a business revenue loss and impacting the End User application functionality for a

majority of users.

High	Critical loss of End User application functionality or performance, impacting the application functionality for a high number of users.
Normal	Moderate loss of End User application functionality or performance, impacting multiple users.
Low	Minor loss of End User application functionality or product feature in question.

ERROR DEFINITION.

An error means a reproducible malfunction in the Software that is reported by End User through AppDynamics ticketing system that prevents the Software from performing in accordance with the operating specifications described in the then-current Documentation.

AUTHORIZED
SUPPORT CONTACTS.

Maintenance and Support will be provided to End Users designated support contacts.

END USERS OBLIGATION TO ASSIST.

If End User reports a purported error in the Software to AppDynamics, AppDynamics ticketing system will request the following minimum information:
A general description of the operating environment
A list of all hardware components, operating systems and networks
A reproducible test case
Any log files, trace and systems files

End Users failure to provide this information may prevent or significantly delay AppDynamics ability to identify and fix the reported error. AppDynamics time to respond to any error will begin when AppDynamics has received all requested information from the End User and is able to reproduce the error.

ERROR RESOLUTION.

If AppDynamics determines there is an error in the Software, AppDynamics may, at its sole option, repair that error in the version of the Software that End User is currently using or instruct End User
to install a newer version of the Software with that error repaired. AppDynamics reserves the right to provide End User with a workaround in lieu of fixing an error.

MAINTENANCE. Provided End User is current on Fees AppDynamics will make available to End User updates and upgrades to the Software that it, in its sole discretion, makes generally commercially available to all customers.

RESPONSE TIME. AppDynamics shall respond to error tickets in accordance with the tables set forth below. AppDynamics will use reasonable means to repair the error and keep End User informed of progress. AppDynamics makes no representations as to when a full resolution of the error may be made.

Error	Initial Response	Manager Escalation	VP Escalation	Email Status Updates
Urgent	1 Hour	1 Business Day	1 Week	Daily
High	6 Hours	1 Week	2 Weeks	Weekly
Normal	1 Business Day	Quarterly Review	None	None
Low	2 Business Days	Semi-Annual Review	None	None

MAINTENANCE AND SUPPORT POLICY: The Maintenance and Support policy is as follows:

AppDynamics provides Maintenance and Support for each version of the Software for a period of 12 months after the generally available release of the next major version of the Software (a major release is a change in the first number to the right of the decimal point). For example, if version 4.1 is released on January 1, 2015, then AppDynamics will provide Maintenance and Support for version 4.0 until January 1, 2016. AppDynamics does not provide Maintenance or Support for any customized software (or components thereof).

For third party software or technology used by End User with the Software but not included with the Software (a Platform, such as Java Virtual Machines), AppDynamics will follow the end-of-life (EOL) support timeline announced by the third party
vendor of such Platform. AppDynamics will stop providing Maintenance and Support for an EOLd Platform version when the Platform vendor stops providing maintenance and support for that Platform version.

EXHIBIT B
AVAILABILITY

The terms set forth in this Exhibit B apply only if End User has purchased access to the online software-as-a-service (SaaS) version of the Software, as indicated on the Order Form.

AVAILABILITY.

AppDynamics will provide Availability (as defined below) of 99.5% (the Availability SLA), excluding situations identified as Exclusions below. For purposes of the Availability SLA, the AppDynamics network extends to, includes and terminates at the data center located router that provides the outside interface of each of AppDynamics WAN connections to its backbone providers (the AppDynamics Network). A report on the actual Availability is located at https://status.appdynamics.com. The Controller is the central repository and analytics engine where all performance data
is stored, baselined, and analyzed.

Exclusions means any outage that results from any of the following:
a. Any Maintenance performed by AppDynamics during AppDynamics standard Maintenance windows.

AppDynamics will notify End User within 48 hours of any standard Maintenance and within 24 hours for other non-standard emergency Maintenance (collectively referred to herein as Scheduled Maintenance).

b. End Users information content or application programming, or the acts or omissions of End User or its agents, including, without limitation, the following:
1. End Users use of any programs not supplied by AppDynamics;
2. End Users failure to provide AppDynamics with reasonable prior written notice of any significant deployments of new nodes or change in configurations resulting in greater than 30% change in a one week period or greater than 50% change in a month in the number of key objects collected; or
3. End Users failure to upgrade AppDynamics application server and machine
software agents (the Agents) to a supported version (i.e. that has not been end of lifed by AppDynamics)
c. Failures of the Internet backbone itself and the network by which End User connects to the Internet backbone or any other network unavailability outside of the AppDynamics Network, such as misconfigurations, proxies or firewalls.
d. Any problems resulting from End User combining or merging the Software with any hardware or software not supplied by AppDynamics or not identified by AppDynamics in the Documentation as being compatible with the Software.
e.End Users or any third partys use of the Software in an unauthorized or unlawful manner.

Remedies for Excessive Downtime:

If Availability falls below the Availability SLA in a given calendar quarter, AppDynamics will pay End User a service credit (Service Credit) as follows, corresponding to the actual Availability during the applicable calendar quarter (on pro-rated basis): if the Availability is 99.5% or greater, End User is
entitled to receive no credits; if the Availability is 97.0% - 99.49%, then End User is entitled to receive Service Credits equal to five percent of the fees for the applicable calendar quarter; if the Availability is 95.0% - 96.9%, then End User is entitled to receive Service Credits equal to ten percent of the fees for the applicable calendar quarter; and if the Availability is less than 95.0%, then End User is entitled to receive Service Credits equal to twenty percent of the fees for the applicable calendar quarter. receive Service Credits, End User must submit a written request to AppDynamics (to legal@appdynamics.com) within 15 days after the end of the quarter in which failure to meet Availability occurred, or End Users right to receive the relevant Service Credits will be waived. Such Service Credit will be issued as a credit against any fees owed by End User for the calendar quarter of the License Term after the request for a Service Credit, or, if End User does not owe any additional
fees, then AppDynamics will pay End User the amount of the applicable Service Credit within 30 days after the end of the calendar month in which End User has requested the Service Credit. The remedies stated in this section are End Users sole and exclusive remedies and AppDynamics sole and exclusive obligations for service interruption or unavailability.

Availability is measured by the following formula: (n - y) *100 / n

(1) n is the total number of minutes in the given calendar quarter minus the Exclusions (as defined above); and y is the total number of minutes in the given calendar quarter that the Controller is not accessible by End User (as determined by AppDynamics tools).

(2) Specifically excluded from n and y in this calculation are the Exclusions.

EXHIBIT C

DATA PROTECTION

This Exhibit shall apply to the processing of any personal data (each as defined below) by AppDynamics in the course of providing the SaaS (as defined below) version of the Software and/or support to the End User.
Data Protection

The terms of this Exhibit apply only if: (i) End User is subject to Data Protection Law (as defined below); and (ii) End User has purchased access to the online software-as-a-service (SaaS) version of the Software, as indicated on the Order Form,

1. DEFINITIONS.

In this Exhibit, the following terms shall have the following meanings:

"controller", "processor", "data subject", "personal data" and "processing" (and "process") shall have the meanings given in the Data Protection Law;

"Data Protection Law" shall mean Regulation 2016/679 of the European Parliament and of the Council on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation); and

Standard Contractual Clauses shall mean the terms at https://trust.appdynamics.com/privacy/dataprotectionclauses which form part of this Exhibit pursuant the European Commission Decision C(2010)593 of 5 February 2010.

2. RELATIONSHIP OF THE PARTIES.

End User (the controller) appoints AppDynamics as a processor to process the personal data described in Annex A (the "Data"). Each party shall comply with the obligations that apply to it under Data Protection Law.

3. PURPOSE LIMITATION.

AppDynamics shall process the Data as a processor as necessary to perform its obligations under this Agreement and strictly in accordance with the documented instructions of the End User (the "Permitted Purpose"), except where otherwise required by any law. Taking into account the nature of the processing and the Software, AppDynamics shall promptly, after becoming aware, inform End User if in AppDynamics opinion an instruction from or on behalf of End User infringes Data Protection Law.

4. INTERNATIONAL TRANSFERS.

Where End Users Controller is hosted on AppDynamics EU based SaaS platform, AppDynamics shall not transfer the Data (nor permit the Data to be transferred) outside of the European Economic Area ("EEA") unless (i) it has first obtained the End User's prior written consent; and (ii) it takes measures to ensure the transfer is in compliance with Data Protection Law; and (iii) for the purposes of providing Support. The Standard Contractual Clauses will apply only to personal data that is transferred outside the EEA, either directly or via onward transfer, to any country not recognised by the European Commission as providing an adequate level of protection for personal data (as described in the Data Protection Laws). The Standard

Contractual Clauses will not apply if AppDynamics has adopted an alternative recognised compliance standard for the lawful transfer of personal data (as defined in the Data Protection Laws) outside the EEA.

5. CONFIDENTIALITY OF PROCESSING.

AppDynamics shall ensure that any person that it authorises to process the Data (including AppDynamics' staff, agents and subcontractors) (an "Authorised Person") shall be
subject to a duty of confidentiality (whether a contractual duty or a statutory duty).

6. SECURITY.

The processor shall implement appropriate controls, including technical, organisational, and other measures, designed to protect the Data (i) from accidental or unlawful destruction, and (ii) loss, alteration, unauthorised disclosure of, or access to the Data (a "Security Incident").

7. SUBCONTRACTING.

AppDynamics shall not subcontract any processing of the Data to a third-party subcontractor without the prior written consent of the End User. Notwithstanding this, the End User consents to AppDynamics engaging third-party subcontractors to process the Data provided that: (i) AppDynamics provides at least 7 days' notice prior to the addition or removal of any subcontractor (including details of the processing it performs or will perform and the location of the subcontractor), which may be given by posting details of such addition or removal at the following URL: https://trust.appdynamics.com/privacy/subprocessors;
(ii) AppDynamics imposes data protection terms on any subcontractor it appoints that protect the Data to the same standard provided for by this paragraph; and (iii) AppDynamics remains fully liable for any breach of this paragraph that is caused by its subcontractor. A list of approved subcontractors and subcontractor locations as at the date of this Agreement is at https://trust.appdynamics.com/privacy/subprocessors. If the End User refuses to consent to AppDynamics' appointment of a third-party subcontractor on reasonable grounds relating to the protection of the Data, then End User may terminate this Agreement by giving no less than 30 days written notice.

8. DATA SUBJECTS' RIGHTS.

AppDynamics shall provide reasonable assistance to the End User (at the End User's expense) to enable the End User to respond to any request from a data subject to exercise any of its rights under Data Protection Law (including its rights of access, correction, objection,
erasure and data portability, as applicable).

9. DATA PROTECTION IMPACT ASSESSMENT.

If the End User reasonably believes that AppDynamics' processing of the Data will result in a high risk to the data protection rights and freedoms of data subjects, it shall promptly inform AppDynamics and AppDynamics shall, if requested by the End User, provide the End User with reasonable information to enable the End User to conduct a data protection impact assessment (taking into account the nature of the processing and the information available to AppDynamics).

10. SECURITY INCIDENTS.

Upon becoming aware of a confirmed Security Incident, AppDynamics shall inform the End User without undue

delay and shall provide all such timely information and cooperation as the End User may reasonably require in order for the End User to fulfil its data breach reporting obligations under (and in accordance with the timescales required by) Data Protection Law. AppDynamics shall further take such measures and actions as it considers necessary to remedy or mitigate the effects of the Security Incident and shall keep the End User informed in connection with the Security Incident.

11. DELETION OF DATA.

AppDynamics will effectively destroy all relevant Data along with any medium or document containing said Data within 14 days from receiving a written request from End User. Upon termination or expiry of this Agreement, AppDynamics will effectively destroy all Data within the time periods stated in the Licence Entitlements and Restrictions for the relevant version of the Software as set out at https://docs.appdynamics.com/display/PAA/Product+Announcements+and+Alerts+Home. AppDynamics shall send the End User written confirmation thereof on written request.

12. RETURN OF DATA.

AppDynamics provides End User with access to its Data in industry standard formats including CSV, XML, and JSON via REST API. End User may use the AppDynamics APIs to export its Data from the Software at any time. For more information, please see https://docs.appdynamics.com.

13. END USER AUDIT.

AppDynamics engages a qualified and independent third-party auditor to conduct semi-annual SOC 2 Type II audits in order to evaluate the adequacy of AppDynamics information security program. Each such audit results in the generation of an audit report (Report), which shall be AppDynamics Confidential Information. During the Licence Term, AppDynamics shall: (i) maintain SOC 2 Type II certification (or other industry-recognized successor certification); (ii) at End Users written request, not more than once per calendar year, provide End User with the then-current Report; and (iii) at End Users expense, promptly (taking into account the nature of the request and to the extent reasonably feasible from a technical perspective) comply with any request of End User for information (including any books and/or records) relating to the Software and/or Services as necessary for End User to enable it to comply with Data Protection Law or any request from a regulator. End User agrees that any audit and inspection rights it may have under Data Protection Law shall be satisfied by the obligations in this paragraph 13.

14. FURTHER SECURITY INFORMATION.

At End Users expense, AppDynamics shall further provide detailed written responses (on a confidential basis) to all reasonable requests for information made by End User, including responses to information security and audit questionnaires, that are necessary to confirm AppDynamics compliance with this Agreement.

15. REGULATOR AUDITS.

If a regulator wishes to carry out any audit or inspection of AppDynamics or its activities under this Agreement, End User shall provide AppDynamics at least 30 days advance notice of any audit, except where the regulator has given less notice to End User or AppDynamics. AppDynamics shall provide access for any audit or investigation by regulator(s) or law enforcement agent(s) as they require.

ANNEX A TO EXHIBIT C

SUBJECT
MATTER OF PROCESSING

The extraction, collection, storage and analysis of Data generated by, and through, the use of End Users software applications.

Further information about what processing of Data each Software product can be used for can be found at www.appdynamics.com/product and in the Documentation.

DURATION OF PROCESSING

For the Licence Term of the SaaS Software licence.

NATURE AND PURPOSE OF PROCESSING

The Data will be processed by AppDynamics SaaS Software platform in order to improve the efficiency and functioning of monitored website(s), software and/or server(s) of End User.

The Software enables the End User to:
a. Measure and track response time, load, error rate, slow rate, and stalls for application transactions.
b. Auto-discover and map application tiers and services, and see the relationships between them.
c. Learn "normal" performance behavior and "normal" code execution paths for application transactions and application services over time so that anomalies
can be detected automatically.
d. Follow the flow of application transactions across tiers and services (even in a highly distributed environment) to allow the identification of bottlenecks.
e. Identify the root cause of errors in applications.
f. View reports and obtain visibility into application performance for understanding the service levels of such applications.
g. View operational dashboards to help information technology teams understand the health and performance of application environments.
h. View agile release comparisons so that developers understand the business impact of application releases, for the purpose of identifying regression and learning from production deployments.

In the course of monitoring End Users website(s), software and/or server(s), AppDynamics will necessarily ingest and process the Data described above in this Annex A for the purpose of providing the Software and its functions.

TYPE OF PERSONAL DATA AND CATEGORIES OF PERSONAL DATA

Depending
on the End Users configuration of the Software the following types and categories of personal data that might be collected are:

Personal details

Included in this category are classes of data which identify the data subject and their personal characteristics. Examples are names, addresses, job title, employer, contact details, age, sex, date of birth, physical descriptions, identifiers issued by public bodies, e.g. NI number.

Family, lifestyle and social circumstances
Included in this category are any matters relating to the family of the data subject and the data subjects lifestyle and social circumstances. Examples are details about current marriage and partnerships and marital history, details of family and other household members, habits, housing, travel details, leisure activities, membership of charitable or voluntary organisations.

Education and training details
Included in this category are any matters which relate to the education and any professional training of the data subject. Examples are academic records, qualifications, skills, training records, professional expertise, student and pupil records.

Employment details
Included in this category are any matters relating to the employment of the data subject. Examples are employment and career history, recruitment and termination details, attendance record, health and safety records, performance appraisals, training records, security records.

Financial details
Included in this category are any matters relating to the financial affairs of the data subject. Examples are income, salary, assets and investments, payments, creditworthiness, loans, benefits, grants, insurance details, pension information.

Goods or services provided
Included in this category are classes of data relating to goods and services which have been provided. Examples are details of the goods or services supplied, licences issued, agreements and contracts.

IT information
Included in this category is any information relating to an
individuals use of technology or software including IP addresses, any information about the computing or mobile device a person is using, location data gathered from such devices, usernames and passwords, social media handles.

CATEGORIES OF DATA SUBJECTS

Customers and/or employees of End User depending on whether End User uses the Software to monitor customer and/or employee facing software applications.

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://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 https://www.cnri.reston.va.us)

in Reston, Virginia where he released several versions of the
software.

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

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
the GPL. All Python licenses, unlike the GPL, let you distribute
a modified version without making your changes open source. The
GPL-compatible licenses make it possible to combine Python with
other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

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

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1.862 jaxb-api 2.3.1.1

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jar/javax/servlet/http/package.html<!--
/opt/cola/permits/2861974785_1768327772.1272047/0/jakarta-servlet-api-4-0-4-sources-2-
jar/javax/servlet/package.html<!--
/opt/cola/permits/2861974785_1768327772.1272047/0/jakarta-servlet-api-4-0-4-sources-2-jar/pom.xml<?xml
version="1.0" encoding="UTF-8"?>

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1.864 tomcat-i18n-es 9.0.112

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1.865 tomcat-jsp-api 9.0.112

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/opt/cola/permits/2862008729_1768328423.6988797/0/tomcat-jsp-api-9-0-112-sources-jar/javax/servlet/jsp/tagext/TagInfo.java/*
/opt/cola/permits/2862008729_1768328423.6988797/0/tomcat-jsp-api-9-0-112-sources-jar/javax/servlet/jsp/tagext/TagLibraryInfo.java/*
/opt/cola/permits/2862008729_1768328423.6988797/0/tomcat-jsp-api-9-0-112-sources-jar/javax/servlet/jsp/tagext/TagLibraryValidator.java/*
/opt/cola/permits/2862008729_1768328423.6988797/0/tomcat-jsp-api-9-0-112-sources-jar/javax/servlet/jsp/tagext/TagSupport.java/*
/opt/cola/permits/2862008729_1768328423.6988797/0/tomcat-jsp-api-9-0-112-sources-jar/javax/servlet/jsp/tagext/TagVariableInfo.java/*
/opt/cola/permits/2862008729_1768328423.6988797/0/tomcat-jsp-api-9-0-112-sources-jar/javax/servlet/jsp/tagext/TryCatchFinally.java/*
/opt/cola/permits/2862008729_1768328423.6988797/0/tomcat-jsp-api-9-0-112-sources-jar/javax/servlet/jsp/tagext/ValidationMessage.java/*
/opt/cola/permits/2862008729_1768328423.6988797/0/tomcat-jsp-api-9-0-112-sources-jar/javax/servlet/jsp/tagext/VariableInfo.java/*

Found
in path(s):
*

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Schemas for Java EE Deployment Descriptors:
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- javaee_web_services_1_3.xsd
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- javaee_6.xsd

- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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org.apache.tomcat.util.json.JSONParser.jj is

a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

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1.889 tomcat-ssi 9.0.112

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/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/AuthStatus.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/ClientAuth.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/MessageInfo.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/MessagePolicy.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/ServerAuth.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/callback/CallerPrincipalCallback.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/callback/CertStoreCallback.java/**

/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/callback/PasswordValidationCallback.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/callback/PrivateKeyCallback.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/callback/SecretKeyCallback.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/callback/TrustStoreCallback.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/config/AuthConfig.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/config/AuthConfigFactory.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/config/AuthConfigProvider.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/config/ClientAuthConfig.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/config/ClientAuthContext.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/config/RegistrationListener.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/config/ServerAuthConfig.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/config/ServerAuthContext.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/module/ClientAuthModule.java/**
/opt/cola/permits/2862008648_1768328414.808043/0/tomcat-jaspic-api-9-0-112-sources-jar/javax/security/auth/message/module/ServerAuthModule.java/**

Found
in path(s):
*

1.891 tomcat-annotations-api 9.0.112

1.891.1 Available under license :

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1.892 open-vm-tools 10.1.5.59732

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Open-vm-tools v10.1.5

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.894 python-setuptools 80.9.0.post20260117

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- https://github.com/abravalheri/validate-pyproject/issues

***

The following files include code from opensource projects
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- `fastjsonschema_exceptions.py`:
  - project: `fastjsonschema` - licensed under BSD-3-Clause
    (https://github.com/horejsek/python-fastjsonschema)
- `extra_validations.py` and `format.py`, `error_reporting.py`:

- project: `validate-pyproject` - licensed under MPL-2.0
  (https://github.com/abravalheri/validate-pyproject)

Additionally
 the following files are automatically generated by tools provided
by the same projects:

- `__init__.py`
- `fastjsonschema_validations.py`

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***

`fastjsonschema`
================

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

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