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Text Part Number: 78EE117C99-2790247821

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1.2 libjpeg 6b

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1.2.2 Available under license :

The Independent JPEG Group's JPEG software
==========

README for release 6b of 27-Mar-1998
==========

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

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

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

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

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal

documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

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

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

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG

decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments
in JFIF files.

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

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============

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by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

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

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

code.

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

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

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

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

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

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp.
The book includes the complete text of the ISO JPEG standards (DIS 10918-1

and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
==========

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image

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

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

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

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

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

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

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed,

one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

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

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

As always, speeding things up is of great interest.

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

1.3 xinetd 2.3.15

1.3.1 Available under license :

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1.5 base-passwd 3.5.29

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Format-Specification: http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135
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1.6 libdaemon 0.14

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1.7 libxml2 2.9.9

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1.8 lrzsz 0.12.20

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/*
protname.c - return the name of the protocol used
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```
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 02111-1307, USA.

*/
#include "zglobal.h"

/* this code was duplicate in lrz.c and lsz.c */

const char *
protname(void)
{
 const char *prot_name;
 switch(protocol) {
 case ZM_XMODEM:
  prot_name="XMODEM";
  break;
 case
 ZM_YMODEM:
  prot_name="YMODEM";
  break;
 default:
  prot_name="ZMODEM";
  break;
 }
 return prot_name;
}
```

1.9 mingetty 1.08

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

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1.10 setserial 2.17

1.10.1 Available under license :

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the names:

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

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

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```
#! /bin/sh
# Attempt to guess a canonical system name.
#   Copyright (C) 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999,
#   2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010,
#   2011, 2012 Free Software Foundation, Inc.

timestamp='2012-08-14'

# This file is free software; you can redistribute it and/or modify it
# under the terms of the GNU General Public License as published by
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```

```
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#
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#
# As a special exception to the GNU General Public License, if you
# distribute this
 file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.


# Originally written by Per Bothner.  Please send patches (context
# diff format) to <config-patches@gnu.org> and include a ChangeLog
# entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub.  If it succeeds, it prints the system name on stdout, and
# exits with 0.  Otherwise, it exits with 1.
#
# You can get the latest version of this script from:
# http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.guess;hb=HEAD

me=`echo "$0" | sed -e 's,.*/,,'`

usage="\
Usage: $0 [OPTION]

Output the configuration name of the system \`$me' is run on.

Operation modes:
 -h, --help         print this help, then exit
 -t, --time-stamp   print date of last modification, then exit
 -v, --version      print version number, then exit

Report
 bugs and patches to <config-patches@gnu.org>."

version="\
GNU config.guess ($timestamp)

Originally written by Per Bothner.
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2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012
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```

```
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE."

help="
Try \`$me --help' for more information."

# Parse command line
while test $# -gt 0 ; do
 case $1 in
   --time-stamp | --time* | -t )
      echo "$timestamp" ; exit ;;
   --version | -v )
      echo "$version" ; exit ;;
   --help | --h* | -h )
      echo "$usage"; exit ;;
   -- )     # Stop option processing
      shift; break ;;
   - ) # Use stdin as input.
      break ;;
   -* )
      echo "$me: invalid option $1$help" >&2
      exit 1 ;;
   * )
      break ;;
 esac
done

if test
 $# != 0; then
 echo "$me: too many arguments$help" >&2
 exit 1
fi

trap 'exit 1' 1 2 15

# CC_FOR_BUILD -- compiler used by this script. Note that the use of a
# compiler to aid in system detection is discouraged as it requires
# temporary files to be created and, as you can see below, it is a
# headache to deal with in a portable fashion.

# Historically, `CC_FOR_BUILD' used to be named `HOST_CC'. We still
# use `HOST_CC' if defined, but it is deprecated.

# Portable tmp directory creation inspired by the Autoconf team.

set_cc_for_build='
trap "exitcode=\$?; (rm -f \$tmpfiles 2>/dev/null; rmdir \$tmp 2>/dev/null) && exit \$exitcode" 0 ;
trap "rm -f \$tmpfiles 2>/dev/null; rmdir \$tmp 2>/dev/null; exit 1" 1 2 13 15 ;
: ${TMPDIR=/tmp} ;
```

```
{ tmp=`(umask 077 && mktemp -d "$TMPDIR/cgXXXXXX") 2>/dev/null` && test -n "$tmp" && test -d "$tmp" ;
} ||
{ test -n "$RANDOM" && tmp=$TMPDIR/cg$$-$RANDOM && (umask 077 && mkdir $tmp) ; } ||
{ tmp=$TMPDIR/cg-$$ && (umask 077
 && mkdir $tmp) && echo "Warning: creating insecure temp directory" >&2 ; } ||
{ echo "$me: cannot create a temporary directory in $TMPDIR" >&2 ; exit 1 ; } ;
dummy=$tmp/dummy ;
tmpfiles="$dummy.c $dummy.o $dummy.rel $dummy" ;
case $CC_FOR_BUILD,$HOST_CC,$CC in
,,)    echo "int x;" > $dummy.c ;
 for c in cc gcc c89 c99 ; do
   if ($c -c -o $dummy.o $dummy.c) >/dev/null 2>&1 ; then
      CC_FOR_BUILD="$c"; break ;
   fi ;
 done ;
 if test x"$CC_FOR_BUILD" = x ; then
   CC_FOR_BUILD=no_compiler_found ;
 fi
 ;;
,,*)   CC_FOR_BUILD=$CC ;;
,*,*)  CC_FOR_BUILD=$HOST_CC ;;
esac ; set_cc_for_build= ;'

# This is needed to find uname on a Pyramid OSx when run in the BSD universe.
# (ghazi@noc.rutgers.edu 1994-08-24)
if (test -f /.attbin/uname) >/dev/null 2>&1 ; then
 PATH=$PATH:/.attbin ; export PATH
fi

UNAME_MACHINE=`(uname -m) 2>/dev/null` || UNAME_MACHINE=unknown
UNAME_RELEASE=`(uname -r) 2>/dev/null` || UNAME_RELEASE=unknown
UNAME_SYSTEM=`(uname -s) 2>/dev/null`
  || UNAME_SYSTEM=unknown
UNAME_VERSION=`(uname -v) 2>/dev/null` || UNAME_VERSION=unknown

# Detect uclibc systems.

LIBC="gnu"
if [ -f /usr/include/bits/uClibc_config.h ]
then
 LIBC=uclibc
 if [ -n `grep "#define __UCLIBC_CONFIG_VERSION__" /usr/include/bits/uClibc_config.h` ]
 then
  UCLIBC_SUBVER=`sed -n "/#define __UCLIBC_CONFIG_VERSION__ /s///p" /usr/include/bits/uClibc_config.h`
  LIBC=$LIBC$UCLIBC_SUBVER
 fi
fi
```

```
# Note: order is significant - the case branches are not exclusive.

case "${UNAME_MACHINE}:${UNAME_SYSTEM}:${UNAME_RELEASE}:${UNAME_VERSION}" in
  *:NetBSD:*:*)
 # NetBSD (nbsd) targets should (where applicable) match one or
 # more of the tuples: *-*-netbsdelf*, *-*-netbsdaout*,
 # *-*-netbsdecoff* and *-*-netbsd*.  For targets that recently
 # switched to ELF, *-*-netbsd* would select the old
 # object file format.  This provides both forward
 # compatibility and a consistent mechanism for selecting the
 # object file format.
 #
 # Note:
 NetBSD doesn't particularly care about the vendor
 # portion of the name.  We always set it to "unknown".
 sysctl="sysctl -n hw.machine_arch"
 UNAME_MACHINE_ARCH=`(/sbin/$sysctl 2>/dev/null || \
    /usr/sbin/$sysctl 2>/dev/null || echo unknown)`
 case "${UNAME_MACHINE_ARCH}" in
    armeb) machine=armeb-unknown ;;
    arm*) machine=arm-unknown ;;
    sh3el) machine=shl-unknown ;;
    sh3eb) machine=sh-unknown ;;
    sh5el) machine=sh5le-unknown ;;
    *) machine=${UNAME_MACHINE_ARCH}-unknown ;;
 esac
 # The Operating System including object format, if it has switched
 # to ELF recently, or will in the future.
 case "${UNAME_MACHINE_ARCH}" in
    arm*|i386|m68k|ns32k|sh3*|sparc|vax)
  eval $set_cc_for_build
  if echo __ELF__ | $CC_FOR_BUILD -E - 2>/dev/null \
   | grep -q __ELF__
  then
     # Once all utilities can be ECOFF (netbsdecoff) or a.out (netbsdaout).
     # Return netbsd for either.  FIX?
     os=netbsd
  else
     os=netbsdelf
  fi
  ;;

   *)
  os=netbsd
  ;;
 esac
 # The OS release
 # Debian GNU/NetBSD machines have a different userland, and
```

```
# thus, need a distinct triplet. However, they do not need
# kernel version information, so it can be replaced with a
# suitable tag, in the style of linux-gnu.
case "${UNAME_VERSION}" in
    Debian*)
 release='-gnu'
 ;;
    *)
 release=`echo ${UNAME_RELEASE}|sed -e 's/[-_].*/\./'`
 ;;
esac
# Since CPU_TYPE-MANUFACTURER-KERNEL-OPERATING_SYSTEM:
# contains redundant information, the shorter form:
# CPU_TYPE-MANUFACTURER-OPERATING_SYSTEM is used.
echo "${machine}-${os}${release}"
exit ;;
  *:Bitrig:*:*)
UNAME_MACHINE_ARCH=`arch | sed 's/Bitrig.//'`
echo ${UNAME_MACHINE_ARCH}-unknown-bitrig${UNAME_RELEASE}
exit ;;
  *:OpenBSD:*:*)
UNAME_MACHINE_ARCH=`arch | sed 's/OpenBSD.//'`
echo ${UNAME_MACHINE_ARCH}-unknown-openbsd${UNAME_RELEASE}
exit ;;
  *:ekkoBSD:*:*)
echo ${UNAME_MACHINE}-unknown-ekkobsd${UNAME_RELEASE}
exit
;;
  *:SolidBSD:*:*)
echo ${UNAME_MACHINE}-unknown-solidbsd${UNAME_RELEASE}
exit ;;
  macppc:MirBSD:*:*)
echo powerpc-unknown-mirbsd${UNAME_RELEASE}
exit ;;
  *:MirBSD:*:*)
echo ${UNAME_MACHINE}-unknown-mirbsd${UNAME_RELEASE}
exit ;;
  alpha:OSF1:*:*)
case $UNAME_RELEASE in
*4.0)
 UNAME_RELEASE=`/usr/sbin/sizer -v | awk '{print $3}'`
 ;;
*5.*)
 UNAME_RELEASE=`/usr/sbin/sizer -v | awk '{print $4}'`
 ;;
esac
# According to Compaq, /usr/sbin/psrinfo has been available on
# OSF/1 and Tru64 systems produced since 1995.  I hope that
```

```
# covers most systems running today.  This code pipes the CPU
# types through head -n 1, so we only detect the type of CPU 0.
ALPHA_CPU_TYPE=`/usr/sbin/psrinfo -v | sed -n -e 's/^  The alpha \(.*\) processor.*$/\1/p' | head -n 1`
case "$ALPHA_CPU_TYPE" in
    "EV4 (21064)")
 UNAME_MACHINE="alpha" ;;
    "EV4.5 (21064)")
 UNAME_MACHINE="alpha" ;;
    "LCA4 (21066/21068)")
 UNAME_MACHINE="alpha" ;;

   "EV5 (21164)")
 UNAME_MACHINE="alphaev5" ;;
    "EV5.6 (21164A)")
 UNAME_MACHINE="alphaev56" ;;
    "EV5.6 (21164PC)")
 UNAME_MACHINE="alphapca56" ;;
    "EV5.7 (21164PC)")
 UNAME_MACHINE="alphapca57" ;;
    "EV6 (21264)")
 UNAME_MACHINE="alphaev6" ;;
    "EV6.7 (21264A)")
 UNAME_MACHINE="alphaev67" ;;
    "EV6.8CB (21264C)")
 UNAME_MACHINE="alphaev68" ;;
    "EV6.8AL (21264B)")
 UNAME_MACHINE="alphaev68" ;;
    "EV6.8CX (21264D)")
 UNAME_MACHINE="alphaev68" ;;
    "EV6.9A (21264/EV69A)")
 UNAME_MACHINE="alphaev69" ;;
    "EV7 (21364)")
 UNAME_MACHINE="alphaev7" ;;
    "EV7.9 (21364A)")
 UNAME_MACHINE="alphaev79" ;;
esac
# A Pn.n version is a patched version.
# A Vn.n version is a released version.
# A Tn.n version is a released field test version.
# A Xn.n version is an unreleased experimental baselevel.
# 1.2 uses "1.2" for uname -r.
echo ${UNAME_MACHINE}-dec-osf`echo ${UNAME_RELEASE} | sed -e 's/^[PVTX]//' | tr
'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
'abcdefghijklmnopqrstuvwxyz'`
# Reset EXIT trap before exiting to avoid spurious non-zero exit code.
exitcode=$?
trap '' 0
exit $exitcode ;;
```

```
  Alpha\ *:Windows_NT*:*)
# How do we know it's Interix rather than the generic POSIX subsystem?
# Should we change UNAME_MACHINE based on the output of uname instead
# of the specific Alpha model?
echo alpha-pc-interix
exit ;;
  21064:Windows_NT:50:3)
echo alpha-dec-winnt3.5
exit ;;
  Amiga*:UNIX_System_V:4.0:*)
echo m68k-unknown-sysv4
exit ;;
  *:[Aa]miga[Oo][Ss]:*:*)
echo ${UNAME_MACHINE}-unknown-amigaos
exit ;;
  *:[Mm]orph[Oo][Ss]:*:*)
echo ${UNAME_MACHINE}-unknown-morphos
exit ;;
  *:OS/390:*:*)
echo i370-ibm-openedition
exit ;;
  *:z/VM:*:*)
echo s390-ibm-zvmoe
exit ;;
  *:OS400:*:*)
echo powerpc-ibm-os400
exit ;;
  arm:RISC*:1.[012]*:*|arm:riscix:1.[012]*:*)
echo arm-acorn-riscix${UNAME_RELEASE}
exit ;;
  arm:riscos:*:*|arm:RISCOS:*:*)
echo
arm-unknown-riscos
exit ;;
  SR2?01:HI-UX/MPP:*:* | SR8000:HI-UX/MPP:*:*)
echo hppa1.1-hitachi-hiuxmpp
exit ;;
  Pyramid*:OSx*:*:* | MIS*:OSx*:*:* | MIS*:SMP_DC-OSx*:*:*)
# akee@wpdis03.wpafb.af.mil (Earle F. Ake) contributed MIS and NILE.
if test "`(/bin/universe) 2>/dev/null`" = att ; then
 echo pyramid-pyramid-sysv3
else
 echo pyramid-pyramid-bsd
fi
exit ;;
  NILE*:*:*:dcosx)
echo pyramid-pyramid-svr4
exit ;;
```

```
  DRS?6000:unix:4.0:6*)
echo sparc-icl-nx6
exit ;;
  DRS?6000:UNIX_SV:4.2*:7* | DRS?6000:isis:4.2*:7*)
case `/usr/bin/uname -p` in
    sparc) echo sparc-icl-nx7; exit ;;
esac ;;
  s390x:SunOS:*:*)
echo ${UNAME_MACHINE}-ibm-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  sun4H:SunOS:5.*:*)
echo sparc-hal-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  sun4*:SunOS:5.*:* | tadpole*:SunOS:5.*:*)
echo sparc-sun-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  i86pc:AuroraUX:5.*:*
| i86xen:AuroraUX:5.*:*)
echo i386-pc-auroraux${UNAME_RELEASE}
exit ;;
  i86pc:SunOS:5.*:* | i86xen:SunOS:5.*:*)
eval $set_cc_for_build
SUN_ARCH="i386"
# If there is a compiler, see if it is configured for 64-bit objects.
# Note that the Sun cc does not turn __LP64__ into 1 like gcc does.
# This test works for both compilers.
if [ "$CC_FOR_BUILD" != 'no_compiler_found' ]; then
    if (echo '#ifdef __amd64'; echo IS_64BIT_ARCH; echo '#endif') | \
 (CCOPTS= $CC_FOR_BUILD -E - 2>/dev/null) | \
 grep IS_64BIT_ARCH >/dev/null
    then
 SUN_ARCH="x86_64"
    fi
fi
echo ${SUN_ARCH}-pc-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  sun4*:SunOS:6*:*)
# According to config.sub, this is the proper way to canonicalize
# SunOS6.  Hard to guess exactly what SunOS6 will be like, but
# it's likely to be more like Solaris than SunOS4.
echo sparc-sun-solaris3`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
exit ;;
  sun4*:SunOS:*:*)
case
"`/usr/bin/arch -k`" in
    Series*|S4*)
 UNAME_RELEASE=`uname -v`
 ;;
```

```
esac
# Japanese Language versions have a version number like `4.1.3-JL'.
echo sparc-sun-sunos`echo ${UNAME_RELEASE}|sed -e 's/-/_/'`
exit ;;
  sun3*:SunOS:*:*)
echo m68k-sun-sunos${UNAME_RELEASE}
exit ;;
  sun*:*:4.2BSD:*)
UNAME_RELEASE=`(sed 1q /etc/motd | awk '{print substr($5,1,3)}') 2>/dev/null`
test "x${UNAME_RELEASE}" = "x" && UNAME_RELEASE=3
case "`/bin/arch`" in
    sun3)
 echo m68k-sun-sunos${UNAME_RELEASE}
 ;;
    sun4)
 echo sparc-sun-sunos${UNAME_RELEASE}
 ;;
esac
exit ;;
  aushp:SunOS:*:*)
echo sparc-auspex-sunos${UNAME_RELEASE}
exit ;;
  # The situation for MiNT is a little confusing.  The machine name
  # can be virtually everything (everything which is not
  # "atarist" or "atariste" at least should have a processor
  # > m68000).  The system name ranges from "MiNT" over "FreeMiNT"
  # to the lowercase version "mint" (or "freemint").
 Finally
  # the system name "TOS" denotes a system which is actually not
  # MiNT.  But MiNT is downward compatible to TOS, so this should
  # be no problem.
  atarist[e]:*MiNT:*:* | atarist[e]:*mint:*:* | atarist[e]:*TOS:*:*)
echo m68k-atari-mint${UNAME_RELEASE}
exit ;;
  atari*:*MiNT:*:* | atari*:*mint:*:* | atarist[e]:*TOS:*:*)
echo m68k-atari-mint${UNAME_RELEASE}
exit ;;
  *falcon*:*MiNT:*:* | *falcon*:*mint:*:* | *falcon*:*TOS:*:*)
echo m68k-atari-mint${UNAME_RELEASE}
exit ;;
  milan*:*MiNT:*:* | milan*:*mint:*:* | *milan*:*TOS:*:*)
echo m68k-milan-mint${UNAME_RELEASE}
exit ;;
  hades*:*MiNT:*:* | hades*:*mint:*:* | *hades*:*TOS:*:*)
echo m68k-hades-mint${UNAME_RELEASE}
exit ;;
  *:*MiNT:*:* | *:*mint:*:* | *:*TOS:*:*)
echo m68k-unknown-mint${UNAME_RELEASE}
```

```
 exit ;;
  m68k:machten:*:*)
 echo m68k-apple-machten${UNAME_RELEASE}
 exit ;;
  powerpc:machten:*:*)
 echo powerpc-apple-machten${UNAME_RELEASE}
 exit ;;
   RISC*:Mach:*:*)
 echo mips-dec-mach_bsd4.3
 exit ;;
  RISC*:ULTRIX:*:*)
 echo mips-dec-ultrix${UNAME_RELEASE}
 exit ;;
  VAX*:ULTRIX*:*:*)
 echo vax-dec-ultrix${UNAME_RELEASE}
 exit ;;
  2020:CLIX:*:* | 2430:CLIX:*:*)
 echo clipper-intergraph-clix${UNAME_RELEASE}
 exit ;;
  mips:*:*:UMIPS | mips:*:*:RISCos)
 eval $set_cc_for_build
 sed 's/^ //' << EOF >$dummy.c
#ifdef __cplusplus
#include <stdio.h>  /* for printf() prototype */
 int main (int argc, char *argv[]) {
#else
 int main (argc, argv) int argc; char *argv[]; {
#endif
 #if defined (host_mips) && defined (MIPSEB)
 #if defined (SYSTYPE_SYSV)
  printf ("mips-mips-riscos%ssysv\n", argv[1]); exit (0);
 #endif
 #if defined (SYSTYPE_SVR4)
  printf ("mips-mips-riscos%ssvr4\n", argv[1]); exit (0);
 #endif
 #if defined (SYSTYPE_BSD43) || defined(SYSTYPE_BSD)
  printf ("mips-mips-riscos%sbsd\n", argv[1]); exit (0);
 #endif
 #endif
  exit (-1);
 }
EOF
 $CC_FOR_BUILD -o $dummy $dummy.c &&

  dummyarg=`echo "${UNAME_RELEASE}" | sed -n 's/\([0-9]*\).*/\1/p'` &&
  SYSTEM_NAME=`$dummy $dummyarg` &&
    { echo "$SYSTEM_NAME"; exit; }
 echo mips-mips-riscos${UNAME_RELEASE}
```

```
exit ;;
  Motorola:PowerMAX_OS:*:*)
echo powerpc-motorola-powermax
exit ;;
  Motorola:*:4.3:PL8-*)
echo powerpc-harris-powermax
exit ;;
  Night_Hawk:*:*:PowerMAX_OS | Synergy:PowerMAX_OS:*:*)
echo powerpc-harris-powermax
exit ;;
  Night_Hawk:Power_UNIX:*:*)
echo powerpc-harris-powerunix
exit ;;
  m88k:CX/UX:7*:*)
echo m88k-harris-cxux7
exit ;;
  m88k:*:4*:R4*)
echo m88k-motorola-sysv4
exit ;;
  m88k:*:3*:R3*)
echo m88k-motorola-sysv3
exit ;;
  AViiON:dgux:*:*)
# DG/UX returns AViiON for all architectures
UNAME_PROCESSOR=`/usr/bin/uname -p`
if [ $UNAME_PROCESSOR = mc88100 ] || [ $UNAME_PROCESSOR = mc88110 ]
then
    if [ ${TARGET_BINARY_INTERFACE}x = m88kdguxelfx ] || \
       [ ${TARGET_BINARY_INTERFACE}x = x ]
    then
 echo m88k-dg-dgux${UNAME_RELEASE}

   else
 echo m88k-dg-dguxbcs${UNAME_RELEASE}
    fi
else
    echo i586-dg-dgux${UNAME_RELEASE}
fi
exit ;;
  M88*:DolphinOS:*:*) # DolphinOS (SVR3)
echo m88k-dolphin-sysv3
exit ;;
  M88*:*:R3*:*)
# Delta 88k system running SVR3
echo m88k-motorola-sysv3
exit ;;
  XD88*:*:*:*) # Tektronix XD88 system running UTekV (SVR3)
echo m88k-tektronix-sysv3
```

```
exit ;;
  Tek43[0-9][0-9]:UTek:*:*) # Tektronix 4300 system running UTek (BSD)
echo m68k-tektronix-bsd
exit ;;
  *:IRIX*:*:*)
echo mips-sgi-irix`echo ${UNAME_RELEASE}|sed -e 's/-/_/g'`
exit ;;
  ????????:AIX?:[12].1:2)   # AIX 2.2.1 or AIX 2.1.1 is RT/PC AIX.
echo romp-ibm-aix     # uname -m gives an 8 hex-code CPU id
exit ;;               # Note that: echo "'`uname -s`'" gives 'AIX '
  i*86:AIX:*:*)
echo i386-ibm-aix
exit ;;
  ia64:AIX:*:*)
if [ -x /usr/bin/oslevel ] ; then
 IBM_REV=`/usr/bin/oslevel`
else
 IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
fi
echo
${UNAME_MACHINE}-ibm-aix${IBM_REV}
exit ;;
  *:AIX:2:3)
if grep bos325 /usr/include/stdio.h >/dev/null 2>&1; then
 eval $set_cc_for_build
 sed 's/^  //' << EOF >$dummy.c
 #include <sys/systemcfg.h>

 main()
  {
  if (!__power_pc())
   exit(1);
  puts("powerpc-ibm-aix3.2.5");
  exit(0);
  }
EOF
 if $CC_FOR_BUILD -o $dummy $dummy.c && SYSTEM_NAME=`$dummy`
 then
  echo "$SYSTEM_NAME"
 else
  echo rs6000-ibm-aix3.2.5
 fi
elif grep bos324 /usr/include/stdio.h >/dev/null 2>&1; then
 echo rs6000-ibm-aix3.2.4
else
 echo rs6000-ibm-aix3.2
fi
exit ;;
```

```
  *:AIX:*:[4567])
IBM_CPU_ID=`/usr/sbin/lsdev -C -c processor -S available | sed 1q | awk '{ print $1 }'`
if /usr/sbin/lsattr -El ${IBM_CPU_ID} | grep ' POWER' >/dev/null 2>&1; then
 IBM_ARCH=rs6000
else
 IBM_ARCH=powerpc
fi
if [ -x /usr/bin/oslevel ] ; then
 IBM_REV=`/usr/bin/oslevel`
else
 IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
fi
echo ${IBM_ARCH}-ibm-aix${IBM_REV}
exit
;;
  *:AIX:*:*)
echo rs6000-ibm-aix
exit ;;
  ibmrt:4.4BSD:*|romp-ibm:BSD:*)
echo romp-ibm-bsd4.4
exit ;;
  ibmrt:*BSD:*|romp-ibm:BSD:*)            # covers RT/PC BSD and
echo romp-ibm-bsd${UNAME_RELEASE}   # 4.3 with uname added to
exit ;;                             # report: romp-ibm BSD 4.3
  *:BOSX:*:*)
echo rs6000-bull-bosx
exit ;;
  DPX/2?00:B.O.S.:*:*)
echo m68k-bull-sysv3
exit ;;
  9000/[34]??:4.3bsd:1.*:*)
echo m68k-hp-bsd
exit ;;
  hp300:4.4BSD:*:* | 9000/[34]??:4.3bsd:2.*:*)
echo m68k-hp-bsd4.4
exit ;;
  9000/[34678]??:HP-UX:*:*)
HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/[^.]*.[0B]*//'`
case "${UNAME_MACHINE}" in
    9000/31? )            HP_ARCH=m68000 ;;
    9000/[34]?? )         HP_ARCH=m68k ;;
    9000/[678][0-9][0-9])
 if [ -x /usr/bin/getconf ]; then
     sc_cpu_version=`/usr/bin/getconf SC_CPU_VERSION 2>/dev/null`
     sc_kernel_bits=`/usr/bin/getconf SC_KERNEL_BITS 2>/dev/null`

   case "${sc_cpu_version}" in
      523) HP_ARCH="hppa1.0" ;; # CPU_PA_RISC1_0
```

```
      528) HP_ARCH="hppa1.1" ;; # CPU_PA_RISC1_1
      532)                      # CPU_PA_RISC2_0
  case "${sc_kernel_bits}" in
    32) HP_ARCH="hppa2.0n" ;;
    64) HP_ARCH="hppa2.0w" ;;
    ") HP_ARCH="hppa2.0" ;;   # HP-UX 10.20
  esac ;;
    esac
 fi
 if [ "${HP_ARCH}" = "" ]; then
    eval $set_cc_for_build
    sed 's/^  //' << EOF >$dummy.c

 #define _HPUX_SOURCE
 #include <stdlib.h>
 #include <unistd.h>

 int main ()
 {
 #if defined(_SC_KERNEL_BITS)
    long bits = sysconf(_SC_KERNEL_BITS);
 #endif
    long cpu  = sysconf (_SC_CPU_VERSION);

    switch (cpu)
  {
  case CPU_PA_RISC1_0: puts ("hppa1.0"); break;
  case CPU_PA_RISC1_1: puts ("hppa1.1"); break;
  case CPU_PA_RISC2_0:
 #if defined(_SC_KERNEL_BITS)
      switch (bits)
   {
   case 64: puts ("hppa2.0w"); break;
   case 32: puts ("hppa2.0n"); break;
   default:
 puts ("hppa2.0"); break;
   } break;
 #else  /* !defined(_SC_KERNEL_BITS) */
      puts ("hppa2.0"); break;
 #endif
  default: puts ("hppa1.0"); break;
  }
    exit (0);
 }
EOF
    (CCOPTS= $CC_FOR_BUILD -o $dummy $dummy.c 2>/dev/null) && HP_ARCH=`$dummy`
    test -z "$HP_ARCH" && HP_ARCH=hppa
 fi ;;
```

```
esac
if [ ${HP_ARCH} = "hppa2.0w" ]
then
    eval $set_cc_for_build

    # hppa2.0w-hp-hpux* has a 64-bit kernel and a compiler generating
    # 32-bit code.  hppa64-hp-hpux* has the same kernel and a compiler
    # generating 64-bit code.  GNU and HP use different nomenclature:
    #
    # $ CC_FOR_BUILD=cc ./config.guess
    # => hppa2.0w-hp-hpux11.23
    # $ CC_FOR_BUILD="cc +DA2.0w" ./config.guess
    # => hppa64-hp-hpux11.23

    if echo __LP64__ | (CCOPTS= $CC_FOR_BUILD -E - 2>/dev/null) |
 grep -q __LP64__
    then
 HP_ARCH="hppa2.0w"
    else
 HP_ARCH="hppa64"
    fi
fi
echo ${HP_ARCH}-hp-hpux${HPUX_REV}
exit ;;
   ia64:HP-UX:*:*)
HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/[^.]*.[0B]*//'`
echo ia64-hp-hpux${HPUX_REV}
exit ;;
  3050*:HI-UX:*:*)
eval $set_cc_for_build
sed 's/^ //' << EOF >$dummy.c
#include <unistd.h>
int
main ()
{
  long cpu = sysconf (_SC_CPU_VERSION);
  /* The order matters, because CPU_IS_HP_MC68K erroneously returns
     true for CPU_PA_RISC1_0.  CPU_IS_PA_RISC returns correct
     results, however.  */
  if (CPU_IS_PA_RISC (cpu))
    {
      switch (cpu)
 {
   case CPU_PA_RISC1_0: puts ("hppa1.0-hitachi-hiuxwe2"); break;
   case CPU_PA_RISC1_1: puts ("hppa1.1-hitachi-hiuxwe2"); break;
   case CPU_PA_RISC2_0: puts ("hppa2.0-hitachi-hiuxwe2"); break;
   default: puts ("hppa-hitachi-hiuxwe2"); break;
 }
```

```
    }
  else if (CPU_IS_HP_MC68K (cpu))
    puts ("m68k-hitachi-hiuxwe2");
  else puts ("unknown-hitachi-hiuxwe2");
  exit (0);
 }
EOF
 $CC_FOR_BUILD -o $dummy $dummy.c && SYSTEM_NAME=`$dummy` &&
  { echo "$SYSTEM_NAME";
 exit; }
 echo unknown-hitachi-hiuxwe2
 exit ;;
  9000/7??:4.3bsd:*:* | 9000/8?[79]:4.3bsd:*:* )
 echo hppa1.1-hp-bsd
 exit ;;
  9000/8??:4.3bsd:*:*)
 echo hppa1.0-hp-bsd
 exit ;;
  *9??*:MPE/iX:*:* | *3000*:MPE/iX:*:*)
 echo hppa1.0-hp-mpeix
 exit ;;
  hp7??:OSF1:*:* | hp8?[79]:OSF1:*:* )
 echo hppa1.1-hp-osf
 exit ;;
  hp8??:OSF1:*:*)
 echo hppa1.0-hp-osf
 exit ;;
  i*86:OSF1:*:*)
 if [ -x /usr/sbin/sysversion ] ; then
    echo ${UNAME_MACHINE}-unknown-osf1mk
 else
    echo ${UNAME_MACHINE}-unknown-osf1
 fi
 exit ;;
  parisc*:Lites*:*:*)
 echo hppa1.1-hp-lites
 exit ;;
  C1*:ConvexOS:*:* | convex:ConvexOS:C1*:*)
 echo c1-convex-bsd
 exit ;;
  C2*:ConvexOS:*:* | convex:ConvexOS:C2*:*)
 if getsysinfo -f scalar_acc
 then echo c32-convex-bsd
 else echo c2-convex-bsd
 fi
 exit ;;
  C34*:ConvexOS:*:* | convex:ConvexOS:C34*:*)
 echo c34-convex-bsd
```

```
exit ;;
  C38*:ConvexOS:*:* | convex:ConvexOS:C38*:*)
echo c38-convex-bsd
exit
;;
  C4*:ConvexOS:*:* | convex:ConvexOS:C4*:*)
echo c4-convex-bsd
exit ;;
  CRAY*Y-MP:*:*:*)
echo ymp-cray-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
exit ;;
  CRAY*[A-Z]90:*:*:*)
echo ${UNAME_MACHINE}-cray-unicos${UNAME_RELEASE} \
| sed -e 's/CRAY.*\([A-Z]90\)/\1/' \
      -e y/ABCDEFGHIJKLMNOPQRSTUVWXYZ/abcdefghijklmnopqrstuvwxyz/ \
      -e 's/\.[^.]*$/.X/'
exit ;;
  CRAY*TS:*:*:*)
echo t90-cray-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
exit ;;
  CRAY*T3E:*:*:*)
echo alphaev5-cray-unicosmk${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
exit ;;
  CRAY*SV1:*:*:*)
echo sv1-cray-unicos${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
exit ;;
  *:UNICOS/mp:*:*)
echo craynv-cray-unicosmp${UNAME_RELEASE} | sed -e 's/\.[^.]*$/.X/'
exit ;;
  F30[01]:UNIX_System_V:*:* | F700:UNIX_System_V:*:*)
FUJITSU_PROC=`uname -m | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyz'`
FUJITSU_SYS=`uname -p | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
'abcdefghijklmnopqrstuvwxyz' | sed -e 's/\///'`
FUJITSU_REL=`echo ${UNAME_RELEASE} | sed -e 's/ /_/'`
echo "${FUJITSU_PROC}-fujitsu-${FUJITSU_SYS}${FUJITSU_REL}"
exit ;;
  5000:UNIX_System_V:4.*:*)
FUJITSU_SYS=`uname -p | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ' 'abcdefghijklmnopqrstuvwxyz' | sed -e
's/\///'`
FUJITSU_REL=`echo ${UNAME_RELEASE} | tr 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
'abcdefghijklmnopqrstuvwxyz' | sed -e 's/ /_/'`
echo "sparc-fujitsu-${FUJITSU_SYS}${FUJITSU_REL}"
exit ;;
  i*86:BSD/386:*:* | i*86:BSD/OS:*:* | *:Ascend\ Embedded/OS:*:*)
echo ${UNAME_MACHINE}-pc-bsdi${UNAME_RELEASE}
exit ;;
  sparc*:BSD/OS:*:*)
echo sparc-unknown-bsdi${UNAME_RELEASE}
```

```
exit ;;
  *:BSD/OS:*:*)
echo ${UNAME_MACHINE}-unknown-bsdi${UNAME_RELEASE}
exit ;;
  *:FreeBSD:*:*)
UNAME_PROCESSOR=`/usr/bin/uname -p`
case ${UNAME_PROCESSOR} in
    amd64)
 echo x86_64-unknown-freebsd`echo ${UNAME_RELEASE}|sed -e 's/[-(].*//'` ;;
    *)
 echo ${UNAME_PROCESSOR}-unknown-freebsd`echo
${UNAME_RELEASE}|sed -e 's/[-(].*//'` ;;
esac
exit ;;
  i*:CYGWIN*:*)
echo ${UNAME_MACHINE}-pc-cygwin
exit ;;
  *:MINGW64*:*)
echo ${UNAME_MACHINE}-pc-mingw64
exit ;;
  *:MINGW*:*)
echo ${UNAME_MACHINE}-pc-mingw32
exit ;;
  i*:MSYS*:*)
echo ${UNAME_MACHINE}-pc-msys
exit ;;
  i*:windows32*:*)
# uname -m includes "-pc" on this system.
echo ${UNAME_MACHINE}-mingw32
exit ;;
  i*:PW*:*)
echo ${UNAME_MACHINE}-pc-pw32
exit ;;
  *:Interix*:*)
case ${UNAME_MACHINE} in
    x86)
 echo i586-pc-interix${UNAME_RELEASE}
 exit ;;
    authenticamd | genuineintel | EM64T)
 echo x86_64-unknown-interix${UNAME_RELEASE}
 exit ;;
    IA64)
 echo ia64-unknown-interix${UNAME_RELEASE}
 exit ;;
esac ;;
  [345]86:Windows_95:* | [345]86:Windows_98:* | [345]86:Windows_NT:*)
echo i${UNAME_MACHINE}-pc-mks
exit ;;
```

```
  8664:Windows_NT:*)
 echo x86_64-pc-mks
 exit ;;
  i*:Windows_NT*:* | Pentium*:Windows_NT*:*)
 #
 How do we know it's Interix rather than the generic POSIX subsystem?
 # It also conflicts with pre-2.0 versions of AT&T UWIN. Should we
 # UNAME_MACHINE based on the output of uname instead of i386?
 echo i586-pc-interix
 exit ;;
  i*:UWIN*:*)
 echo ${UNAME_MACHINE}-pc-uwin
 exit ;;
  amd64:CYGWIN*:*:* | x86_64:CYGWIN*:*:*)
 echo x86_64-unknown-cygwin
 exit ;;
  p*:CYGWIN*:*)
 echo powerpcle-unknown-cygwin
 exit ;;
  prep*:SunOS:5.*:*)
 echo powerpcle-unknown-solaris2`echo ${UNAME_RELEASE}|sed -e 's/[^.]*//'`
 exit ;;
  *:GNU:*:*)
 # the GNU system
 echo `echo ${UNAME_MACHINE}|sed -e 's,[-/].*$,,'`-unknown-gnu`echo ${UNAME_RELEASE}|sed -e 's,/.*$,,'`
 exit ;;
  *:GNU/*:*:*)
 # other systems with GNU libc and userland
 echo ${UNAME_MACHINE}-unknown-`echo ${UNAME_SYSTEM} | sed 's,^[^/]*/,,' | tr '[A-Z]' '[a-z]'``echo
${UNAME_RELEASE}|sed -e 's/[-(].*//'`-gnu
 exit ;;
  i*86:Minix:*:*)
 echo ${UNAME_MACHINE}-pc-minix
 exit ;;
  aarch64:Linux:*:*)
 echo
 ${UNAME_MACHINE}-unknown-linux-gnu
 exit ;;
  aarch64_be:Linux:*:*)
 UNAME_MACHINE=aarch64_be
 echo ${UNAME_MACHINE}-unknown-linux-gnu
 exit ;;
  alpha:Linux:*:*)
 case `sed -n '/^cpu model/s/^.*: \(.*\)/\1/p' < /proc/cpuinfo` in
  EV5)   UNAME_MACHINE=alphaev5 ;;
  EV56)  UNAME_MACHINE=alphaev56 ;;
  PCA56) UNAME_MACHINE=alphapca56 ;;
  PCA57) UNAME_MACHINE=alphapca56 ;;
```

```
  EV6)   UNAME_MACHINE=alphaev6 ;;
  EV67)  UNAME_MACHINE=alphaev67 ;;
  EV68*) UNAME_MACHINE=alphaev68 ;;
esac
objdump --private-headers /bin/sh | grep -q ld.so.1
if test "$?" = 0 ; then LIBC="gnulibc1" ; else LIBC="" ; fi
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  arm*:Linux:*:*)
eval $set_cc_for_build
if echo __ARM_EABI__ | $CC_FOR_BUILD -E - 2>/dev/null \
    | grep -q __ARM_EABI__
then
    echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
else
    if echo __ARM_PCS_VFP | $CC_FOR_BUILD -E - 2>/dev/null \
 | grep -q __ARM_PCS_VFP
    then
 echo
${UNAME_MACHINE}-unknown-linux-gnueabi
    else
 echo ${UNAME_MACHINE}-unknown-linux-gnueabihf
    fi
fi
exit ;;
  avr32*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  cris:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
  crisv32:Linux:*:*)
echo ${UNAME_MACHINE}-axis-linux-${LIBC}
exit ;;
  frv:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  hexagon:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  i*86:Linux:*:*)
LIBC=gnu
eval $set_cc_for_build
sed 's/^ //' << EOF >$dummy.c
#ifdef __dietlibc__
LIBC=dietlibc
#endif
EOF
```

```
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^LIBC'`
echo "${UNAME_MACHINE}-pc-linux-${LIBC}"
exit ;;
  ia64:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  m32r*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  m68*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit
;;
  mips:Linux:*:* | mips64:Linux:*:*)
eval $set_cc_for_build
sed 's/^ //' << EOF >$dummy.c
#undef CPU
#undef ${UNAME_MACHINE}
#undef ${UNAME_MACHINE}el
#if defined(__MIPSEL__) || defined(__MIPSEL) || defined(_MIPSEL) || defined(MIPSEL)
CPU=${UNAME_MACHINE}el
#else
#if defined(__MIPSEB__) || defined(__MIPSEB) || defined(_MIPSEB) || defined(MIPSEB)
CPU=${UNAME_MACHINE}
#else
CPU=
#endif
#endif
EOF
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^CPU'`
test x"${CPU}" != x && { echo "${CPU}-unknown-linux-${LIBC}"; exit; }
;;
  or32:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  padre:Linux:*:*)
echo sparc-unknown-linux-${LIBC}
exit ;;
  parisc64:Linux:*:* | hppa64:Linux:*:*)
echo hppa64-unknown-linux-${LIBC}
exit ;;
  parisc:Linux:*:* | hppa:Linux:*:*)
# Look for CPU level
case `grep '^cpu[^a-z]*:' /proc/cpuinfo 2>/dev/null | cut -d' ' -f2` in
  PA7*) echo hppa1.1-unknown-linux-${LIBC} ;;
  PA8*)
echo hppa2.0-unknown-linux-${LIBC} ;;
  *)    echo hppa-unknown-linux-${LIBC} ;;
```

```
esac
exit ;;
  ppc64:Linux:*:*)
echo powerpc64-unknown-linux-${LIBC}
exit ;;
  ppc:Linux:*:*)
echo powerpc-unknown-linux-${LIBC}
exit ;;
  s390:Linux:*:* | s390x:Linux:*:*)
echo ${UNAME_MACHINE}-ibm-linux
exit ;;
  sh64*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  sh*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  sparc:Linux:*:* | sparc64:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  tile*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  vax:Linux:*:*)
echo ${UNAME_MACHINE}-dec-linux-${LIBC}
exit ;;
  x86_64:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  xtensa*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exit ;;
  i*86:DYNIX/ptx:4*:*)
# ptx 4.0 does uname -s correctly, with DYNIX/ptx in there.
# earlier versions are messed
up and put the nodename in both
# sysname and nodename.
echo i386-sequent-sysv4
exit ;;
  i*86:UNIX_SV:4.2MP:2.*)
# Unixware is an offshoot of SVR4, but it has its own version
# number series starting with 2...
# I am not positive that other SVR4 systems won't match this,
# I just have to hope.  -- rms.
# Use sysv4.2uw... so that sysv4* matches it.
echo ${UNAME_MACHINE}-pc-sysv4.2uw${UNAME_VERSION}
exit ;;
  i*86:OS/2:*:*)
```

```
# If we were able to find `uname', then EMX Unix compatibility
# is probably installed.
echo ${UNAME_MACHINE}-pc-os2-emx
exit ;;
  i*86:XTS-300:*:STOP)
echo ${UNAME_MACHINE}-unknown-stop
exit ;;
  i*86:atheos:*:*)
echo ${UNAME_MACHINE}-unknown-atheos
exit ;;
  i*86:syllable:*:*)
echo ${UNAME_MACHINE}-pc-syllable
exit ;;
  i*86:LynxOS:2.*:* | i*86:LynxOS:3.[01]*:* | i*86:LynxOS:4.[02]*:*)
echo i386-unknown-lynxos${UNAME_RELEASE}
exit ;;
  i*86:*DOS:*:*)
echo ${UNAME_MACHINE}-pc-msdosdjgpp
exit ;;
   i*86:*:4.*:* | i*86:SYSTEM_V:4.*:*)
UNAME_REL=`echo ${UNAME_RELEASE} | sed 's/\/MP$//'`
if grep Novell /usr/include/link.h >/dev/null 2>/dev/null; then
 echo ${UNAME_MACHINE}-univel-sysv${UNAME_REL}
else
 echo ${UNAME_MACHINE}-pc-sysv${UNAME_REL}
fi
exit ;;
  i*86:*:5:[678]*)
# UnixWare 7.x, OpenUNIX and OpenServer 6.
case `/bin/uname -X | grep "^Machine"` in
    *486*)      UNAME_MACHINE=i486 ;;
    *Pentium)      UNAME_MACHINE=i586 ;;
    *Pent*|*Celeron) UNAME_MACHINE=i686 ;;
esac
echo ${UNAME_MACHINE}-unknown-
sysv${UNAME_RELEASE}${UNAME_SYSTEM}${UNAME_VERSION}
exit ;;
  i*86:*:3.2:*)
if test -f /usr/options/cb.name; then
 UNAME_REL=`sed -n 's/.*Version //p' </usr/options/cb.name`
 echo ${UNAME_MACHINE}-pc-isc$UNAME_REL
elif /bin/uname -X 2>/dev/null >/dev/null ; then
 UNAME_REL=`(/bin/uname -X|grep Release|sed -e 's/.*= //')`
 (/bin/uname -X|grep i80486 >/dev/null) && UNAME_MACHINE=i486
 (/bin/uname -X|grep '^Machine.*Pentium'
>/dev/null) \
  && UNAME_MACHINE=i586
 (/bin/uname -X|grep '^Machine.*Pent *II' >/dev/null) \
```

```
  && UNAME_MACHINE=i686
 (/bin/uname -X|grep '^Machine.*Pentium Pro' >/dev/null) \
  && UNAME_MACHINE=i686
 echo ${UNAME_MACHINE}-pc-sco$UNAME_REL
else
 echo ${UNAME_MACHINE}-pc-sysv32
fi
exit ;;
  pc:*:*:*)
# Left here for compatibility:
# uname -m prints for DJGPP always 'pc', but it prints nothing about
# the processor, so we play safe by assuming i586.
# Note: whatever this is, it MUST be the same as what config.sub
# prints for the "djgpp" host, or else GDB configury will decide that
# this is a cross-build.
echo i586-pc-msdosdjgpp
exit ;;
  Intel:Mach:3*:*)
echo i386-pc-mach3
exit ;;
  paragon:*:*:*)
echo i860-intel-osf1
exit ;;
  i860:*:4.*:*) # i860-SVR4
if grep Stardent /usr/include/sys/uadmin.h >/dev/null 2>&1 ; then
  echo i860-stardent-sysv${UNAME_RELEASE} # Stardent Vistra i860-SVR4
else # Add other i860-SVR4 vendors below
as they are discovered.
  echo i860-unknown-sysv${UNAME_RELEASE}  # Unknown i860-SVR4
fi
exit ;;
  mini*:CTIX:SYS*5:*)
# "miniframe"
echo m68010-convergent-sysv
exit ;;
  mc68k:UNIX:SYSTEM5:3.51m)
echo m68k-convergent-sysv
exit ;;
  M680?0:D-NIX:5.3:*)
echo m68k-diab-dnix
exit ;;
  M68*:*:R3V[5678]*:*)
test -r /sysV68 && { echo 'm68k-motorola-sysv'; exit; } ;;
  3[345]??:*:4.0:3.0 | 3[34]??A:*:4.0:3.0 | 3[34]??,*:*:4.0:3.0 | 3[34]??/*:*:4.0:3.0 | 4400:*:4.0:3.0 | 4850:*:4.0:3.0 |
SKA40:*:4.0:3.0 | SDS2:*:4.0:3.0 | SHG2:*:4.0:3.0 | S7501*:*:4.0:3.0)
 OS_REL="
 test -r /etc/.relid \
 && OS_REL=.`sed -n 's/[^ ]* [^ ]* \([0-9][0-9]\).*/\1/p' < /etc/.relid`
```

```
/bin/uname -p 2>/dev/null | grep 86 >/dev/null \
  && { echo i486-ncr-sysv4.3${OS_REL}; exit; }
/bin/uname -p 2>/dev/null | /bin/grep entium >/dev/null \
  && { echo i586-ncr-sysv4.3${OS_REL}; exit; } ;;
  3[34]??:*:4.0:* | 3[34]??,*:*:4.0:*)
/bin/uname -p 2>/dev/null | grep 86 >/dev/null
\
  && { echo i486-ncr-sysv4; exit; } ;;
  NCR*:*:4.2:* | MPRAS*:*:4.2:*)
OS_REL='.3'
test -r /etc/.relid \
    && OS_REL=.`sed -n 's/[^ ]* [^ ]* \([0-9][0-9]\).*/\1/p' < /etc/.relid`
/bin/uname -p 2>/dev/null | grep 86 >/dev/null \
    && { echo i486-ncr-sysv4.3${OS_REL}; exit; }
/bin/uname -p 2>/dev/null | /bin/grep entium >/dev/null \
    && { echo i586-ncr-sysv4.3${OS_REL}; exit; }
/bin/uname -p 2>/dev/null | /bin/grep pteron >/dev/null \
    && { echo i586-ncr-sysv4.3${OS_REL}; exit; } ;;
  m68*:LynxOS:2.*:* | m68*:LynxOS:3.0*:*)
echo m68k-unknown-lynxos${UNAME_RELEASE}
exit ;;
  mc68030:UNIX_System_V:4.*:*)
echo m68k-atari-sysv4
exit ;;
  TSUNAMI:LynxOS:2.*:*)
echo sparc-unknown-lynxos${UNAME_RELEASE}
exit ;;
  rs6000:LynxOS:2.*:*)
echo rs6000-unknown-lynxos${UNAME_RELEASE}
exit ;;
  PowerPC:LynxOS:2.*:* | PowerPC:LynxOS:3.[01]*:* | PowerPC:LynxOS:4.[02]*:*)
echo powerpc-unknown-lynxos${UNAME_RELEASE}
exit ;;

 SM[BE]S:UNIX_SV:*:*)
echo mips-dde-sysv${UNAME_RELEASE}
exit ;;
  RM*:ReliantUNIX-*:*:*)
echo mips-sni-sysv4
exit ;;
  RM*:SINIX-*:*:*)
echo mips-sni-sysv4
exit ;;
  *:SINIX-*:*:*)
if uname -p 2>/dev/null >/dev/null ; then
 UNAME_MACHINE=`(uname -p) 2>/dev/null`
 echo ${UNAME_MACHINE}-sni-sysv4
else
```

```
 echo ns32k-sni-sysv
fi
exit ;;
  PENTIUM:*:4.0*:*) # Unisys `ClearPath HMP IX 4000' SVR4/MP effort
  # says <Richard.M.Bartel@ccMail.Census.GOV>
echo i586-unisys-sysv4
exit ;;
  *:UNIX_System_V:4*:FTX*)
# From Gerald Hewes <hewes@openmarket.com>.
# How about differentiating between stratus architectures? -djm
echo hppa1.1-stratus-sysv4
exit ;;
  *:*:*:FTX*)
# From seanf@swdc.stratus.com.
echo i860-stratus-sysv4
exit ;;
  i*86:VOS:*:*)
# From Paul.Green@stratus.com.
echo ${UNAME_MACHINE}-stratus-vos
exit ;;
  *:VOS:*:*)
# From Paul.Green@stratus.com.
echo hppa1.1-stratus-vos
exit ;;
  mc68*:A/UX:*:*)
echo
m68k-apple-aux${UNAME_RELEASE}
exit ;;
  news*:NEWS-OS:6*:*)
echo mips-sony-newsos6
exit ;;
  R[34]000:*System_V*:*:* | R4000:UNIX_SYSV:*:* | R*000:UNIX_SV:*:*)
if [ -d /usr/nec ]; then
 echo mips-nec-sysv${UNAME_RELEASE}
else
 echo mips-unknown-sysv${UNAME_RELEASE}
fi
exit ;;
  BeBox:BeOS:*:*) # BeOS running on hardware made by Be, PPC only.
echo powerpc-be-beos
exit ;;
  BeMac:BeOS:*:*) # BeOS running on Mac or Mac clone, PPC only.
echo powerpc-apple-beos
exit ;;
  BePC:BeOS:*:*) # BeOS running on Intel PC compatible.
echo i586-pc-beos
exit ;;
  BePC:Haiku:*:*) # Haiku running on Intel PC compatible.
```

```
echo i586-pc-haiku
exit ;;
  x86_64:Haiku:*:*)
echo x86_64-unknown-haiku
exit ;;
  SX-4:SUPER-UX:*:*)
echo sx4-nec-superux${UNAME_RELEASE}
exit ;;
  SX-5:SUPER-UX:*:*)
echo sx5-nec-superux${UNAME_RELEASE}
exit ;;
  SX-6:SUPER-UX:*:*)
echo sx6-nec-superux${UNAME_RELEASE}
exit ;;
  SX-7:SUPER-UX:*:*)
echo
sx7-nec-superux${UNAME_RELEASE}
exit ;;
  SX-8:SUPER-UX:*:*)
echo sx8-nec-superux${UNAME_RELEASE}
exit ;;
  SX-8R:SUPER-UX:*:*)
echo sx8r-nec-superux${UNAME_RELEASE}
exit ;;
  Power*:Rhapsody:*:*)
echo powerpc-apple-rhapsody${UNAME_RELEASE}
exit ;;
  *:Rhapsody:*:*)
echo ${UNAME_MACHINE}-apple-rhapsody${UNAME_RELEASE}
exit ;;
  *:Darwin:*:*)
UNAME_PROCESSOR=`uname -p` || UNAME_PROCESSOR=unknown
case $UNAME_PROCESSOR in
    i386)
 eval $set_cc_for_build
 if [ "$CC_FOR_BUILD" != 'no_compiler_found' ]; then
   if (echo '#ifdef __LP64__'; echo IS_64BIT_ARCH; echo '#endif') | \
       (CCOPTS= $CC_FOR_BUILD -E - 2>/dev/null) | \
       grep IS_64BIT_ARCH >/dev/null
   then
       UNAME_PROCESSOR="x86_64"
   fi
 fi ;;
    unknown) UNAME_PROCESSOR=powerpc ;;
esac
echo ${UNAME_PROCESSOR}-apple-darwin${UNAME_RELEASE}
exit ;;
  *:procnto*:*:* | *:QNX:[0123456789]*:*)
```

```
UNAME_PROCESSOR=`uname -p`
if test "$UNAME_PROCESSOR" =
"x86"; then
 UNAME_PROCESSOR=i386
 UNAME_MACHINE=pc
fi
echo ${UNAME_PROCESSOR}-${UNAME_MACHINE}-nto-qnx${UNAME_RELEASE}
exit ;;
  *:QNX:*:4*)
echo i386-pc-qnx
exit ;;
  NEO-?:NONSTOP_KERNEL:*:*)
echo neo-tandem-nsk${UNAME_RELEASE}
exit ;;
  NSE-*:NONSTOP_KERNEL:*:*)
echo nse-tandem-nsk${UNAME_RELEASE}
exit ;;
  NSR-?:NONSTOP_KERNEL:*:*)
echo nsr-tandem-nsk${UNAME_RELEASE}
exit ;;
  *:NonStop-UX:*:*)
echo mips-compaq-nonstopux
exit ;;
  BS2000:POSIX*:*:*)
echo bs2000-siemens-sysv
exit ;;
  DS/*:UNIX_System_V:*:*)
echo ${UNAME_MACHINE}-${UNAME_SYSTEM}-${UNAME_RELEASE}
exit ;;
  *:Plan9:*:*)
# "uname -m" is not consistent, so use $cputype instead. 386
# is converted to i386 for consistency with other x86
# operating systems.
if test "$cputype" = "386"; then
    UNAME_MACHINE=i386
else
    UNAME_MACHINE="$cputype"
fi
echo ${UNAME_MACHINE}-unknown-plan9
exit ;;
  *:TOPS-10:*:*)
echo pdp10-unknown-tops10
exit
;;
  *:TENEX:*:*)
echo pdp10-unknown-tenex
exit ;;
  KS10:TOPS-20:*:* | KL10:TOPS-20:*:* | TYPE4:TOPS-20:*:*)
```

```
 echo pdp10-dec-tops20
 exit ;;
   XKL-1:TOPS-20:*:* | TYPE5:TOPS-20:*:*)
 echo pdp10-xkl-tops20
 exit ;;
   *:TOPS-20:*:*)
 echo pdp10-unknown-tops20
 exit ;;
   *:ITS:*:*)
 echo pdp10-unknown-its
 exit ;;
   SEI:*:*:SEIUX)
 echo mips-sei-seiux${UNAME_RELEASE}
 exit ;;
   *:DragonFly:*:*)
 echo ${UNAME_MACHINE}-unknown-dragonfly`echo ${UNAME_RELEASE}|sed -e 's/[-(].*//'`
 exit ;;
   *:*VMS:*:*)
 UNAME_MACHINE=`(uname -p) 2>/dev/null`
 case "${UNAME_MACHINE}" in
     A*) echo alpha-dec-vms ; exit ;;
     I*) echo ia64-dec-vms ; exit ;;
     V*) echo vax-dec-vms ; exit ;;
 esac ;;
   *:XENIX:*:SysV)
 echo i386-pc-xenix
 exit ;;
   i*86:skyos:*:*)
 echo ${UNAME_MACHINE}-pc-skyos`echo ${UNAME_RELEASE}` | sed -e 's/ .*$//'
 exit ;;
   i*86:rdos:*:*)
 echo ${UNAME_MACHINE}-pc-rdos
 exit ;;
   i*86:AROS:*:*)
 echo ${UNAME_MACHINE}-pc-aros
 exit
 ;;
   x86_64:VMkernel:*:*)
 echo ${UNAME_MACHINE}-unknown-esx
 exit ;;
esac

eval $set_cc_for_build
cat >$dummy.c <<EOF
#ifdef _SEQUENT_
# include <sys/types.h>
# include <sys/utsname.h>
#endif
```

```
main ()
{
#if defined (sony)
#if defined (MIPSEB)
 /* BFD wants "bsd" instead of "newsos".  Perhaps BFD should be changed,
    I don't know....  */
 printf ("mips-sony-bsd\n"); exit (0);
#else
#include <sys/param.h>
 printf ("m68k-sony-newsos%s\n",
#ifdef NEWSOS4
 "4"
#else
 ""
#endif
 ); exit (0);
#endif
#endif

#if defined (__arm) && defined (__acorn) && defined (__unix)
 printf ("arm-acorn-riscix\n"); exit (0);
#endif

#if defined (hp300) && !defined (hpux)
 printf ("m68k-hp-bsd\n"); exit (0);
#endif

#if defined (NeXT)
#if !defined (__ARCHITECTURE__)
#define __ARCHITECTURE__ "m68k"
#endif
 int version;
 version=`(hostinfo | sed -n 's/.*NeXT Mach \([0-9]*\).*/\1/p') 2>/dev/null`;
 if (version < 4)
   printf ("%s-next-nextstep%d\n",
 __ARCHITECTURE__, version);
 else
   printf ("%s-next-openstep%d\n", __ARCHITECTURE__, version);
 exit (0);
#endif

#if defined (MULTIMAX) || defined (n16)
#if defined (UMAXV)
 printf ("ns32k-encore-sysv\n"); exit (0);
#else
#if defined (CMU)
 printf ("ns32k-encore-mach\n"); exit (0);
#else
```

```
 printf ("ns32k-encore-bsd\n"); exit (0);
#endif
#endif
#endif

#if defined (__386BSD__)
 printf ("i386-pc-bsd\n"); exit (0);
#endif

#if defined (sequent)
#if defined (i386)
 printf ("i386-sequent-dynix\n"); exit (0);
#endif
#if defined (ns32000)
 printf ("ns32k-sequent-dynix\n"); exit (0);
#endif
#endif

#if defined (_SEQUENT_)
   struct utsname un;

   uname(&un);

   if (strncmp(un.version, "V2", 2) == 0) {
 printf ("i386-sequent-ptx2\n"); exit (0);
   }
   if (strncmp(un.version, "V1", 2) == 0) { /* XXX is V1 correct? */
 printf ("i386-sequent-ptx1\n"); exit (0);
   }
   printf ("i386-sequent-ptx\n"); exit (0);

#endif

#if
 defined (vax)
# if !defined (ultrix)
#  include <sys/param.h>
#  if defined (BSD)
#   if BSD == 43
     printf ("vax-dec-bsd4.3\n"); exit (0);
#   else
#    if BSD == 199006
     printf ("vax-dec-bsd4.3reno\n"); exit (0);
#    else
     printf ("vax-dec-bsd\n"); exit (0);
#    endif
#   endif
#  else
```

```
   printf ("vax-dec-bsd\n"); exit (0);
#  endif
# else
   printf ("vax-dec-ultrix\n"); exit (0);
# endif
#endif

#if defined (alliant) && defined (i860)
 printf ("i860-alliant-bsd\n"); exit (0);
#endif

 exit (1);
}
EOF

$CC_FOR_BUILD -o $dummy $dummy.c 2>/dev/null && SYSTEM_NAME=`$dummy` &&
 { echo "$SYSTEM_NAME"; exit; }

# Apollos put the system type in the environment.

test -d /usr/apollo && { echo ${ISP}-apollo-${SYSTYPE}; exit; }

# Convex versions that predate uname can use getsysinfo(1)

if [ -x /usr/convex/getsysinfo ]
then
   case `getsysinfo -f cpu_type` in
   c1*)
 echo c1-convex-bsd
 exit ;;
   c2*)
 if getsysinfo
 -f scalar_acc
 then echo c32-convex-bsd
 else echo c2-convex-bsd
 fi
 exit ;;
   c34*)
 echo c34-convex-bsd
 exit ;;
   c38*)
 echo c38-convex-bsd
 exit ;;
   c4*)
 echo c4-convex-bsd
 exit ;;
   esac
fi
```

```
cat >&2 <<EOF
$0: unable to guess system type

This script, last modified $timestamp, has failed to recognize
the operating system you are using. It is advised that you
download the most up to date version of the config scripts from

 http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.guess;hb=HEAD
and
 http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.sub;hb=HEAD

If the version you run ($0) is already up to date, please
send the following data and any information you think might be
pertinent to <config-patches@gnu.org> in order to provide the needed
information to handle your system.

config.guess timestamp = $timestamp

uname -m = `(uname -m) 2>/dev/null || echo unknown`
uname -r = `(uname -r) 2>/dev/null
 || echo unknown`
uname -s = `(uname -s) 2>/dev/null || echo unknown`
uname -v = `(uname -v) 2>/dev/null || echo unknown`

/usr/bin/uname -p = `(/usr/bin/uname -p) 2>/dev/null`
/bin/uname -X     = `(/bin/uname -X) 2>/dev/null`

hostinfo               = `(hostinfo) 2>/dev/null`
/bin/universe          = `(/bin/universe) 2>/dev/null`
/usr/bin/arch -k       = `(/usr/bin/arch -k) 2>/dev/null`
/bin/arch              = `(/bin/arch) 2>/dev/null`
/usr/bin/oslevel       = `(/usr/bin/oslevel) 2>/dev/null`
/usr/convex/getsysinfo = `(/usr/convex/getsysinfo) 2>/dev/null`

UNAME_MACHINE = ${UNAME_MACHINE}
UNAME_RELEASE = ${UNAME_RELEASE}
UNAME_SYSTEM  = ${UNAME_SYSTEM}
UNAME_VERSION = ${UNAME_VERSION}
EOF

exit 1

# Local variables:
# eval: (add-hook 'write-file-hooks 'time-stamp)
# time-stamp-start: "timestamp='"
# time-stamp-format: "%:y-%02m-%02d"
# time-stamp-end: "'"
```

```
# End:
```

1.11 tcp-wrappers 7.6

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1.12 zip 3.0

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Format stream_lf

1.13 dmidecode 3.5

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1.14 sbsigntool 1.3

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sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.15 sharutils 4.15

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1.16 dmalloc 5.5.2

1.17 libnet 1.2

1.17.1 Available under license :

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EOF

1.18 libart 2.3.21

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1.23 pkg-config 0.29.2

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1.26 os-release 1.0

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1.27 wireless-tools 30.pre9

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Written by: Philip Hazel
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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
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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 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)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.29 libsamplerate 0.1.9

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numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and
modification
follow. Pay close attention to the difference between a
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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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if
its contents constitute a work based
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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:

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That's all there is to it!

1.32 libcheck 0.15.2

1.32.1 Available under license :

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits

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

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

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

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

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

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corresponding machine-readable source code, which
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1.35 bridgeutils 1.7

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1.40 smartmontools 7.2

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1.44 lmdb 0.9.24

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1.45 lm-sensors 3.6.0

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1.49 libogg 1.3.4

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1.53 json-c 0.99.9

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1.54 lighttpd 1.4.59

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1.56 mpclib 1.2.1

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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
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1.59 liburcu 0.12.2

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That's all there is to it!
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:

 https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

 commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009 :

 http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:

 http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project
 was therefore changed to
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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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1.60 luajit 2.1.0.beta3

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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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1.66 libpwquality 1.4.4

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```
/*
* pw.c
*
* AAA password routines, adopted from IOX
*
* January 2005, Naiming Shen
* July 2005, Craig MacFarlane
*
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*
*-----------------------------------------------------------------
* pw.c -- password encryption/decryption routines
*
* May 08 2000, Mark Eklund
*
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*-----------------------------------------------------------------
*/
```

Found in path(s):
* /pw-tar/pw/src/pw.c

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```
/*
* pw_defs.h
*
* Password defines.
*
* July 2005, Craig MacFarlane
*
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*
*/
```

Found in path(s):
* /pw-tar/pw/include/pw_defs.h

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```
/*
```

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*
* May 2000 Mark Eklund
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*
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*/
/*
* edt: * pw_type_t
*      Possible formats of saving the password in SysDB.
*
* item: PW_TYPE_CLEAR
*       The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
*       The password encrypted to an MD5 digest.  This is not reversible.
*
* item: PW_TYPE_1WAY_2
*       The password encrypted to an sha256 digest.  This is not reversible.
*
* item: PW_TYPE_2WAY
*       The Cisco type 7 password encryption.  This is reversible
*  by both Cisco products and several public domain programs.
*/
```

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```
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```

Found in path(s):
* /pw-tar/pw/Makefile.binos
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```
/*
* pw_const.tph
*
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*/

@DIRECTIVES{
  auto_import_stg = false;
  skip_auto_tdl_include = true;
```

```
}@

@IMPORT_STG{
  import "constant_gen.stg";
}@

@TDL{
  import "pw_const.tdl"
}@

@CODE{

#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

  $constant_generate()$

#endif /* __TDLC_GEN_PW_CONST_H__ */

}@
```

Found in path(s):
* /pw-tar/pw/include/pw_const.tph

1.67 cavium-liquidio 3.1.2

1.67.1 Available under license :

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1.68 fdisk 2.38.0

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2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

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

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

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

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
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b) Give prominent notice with the combined library of the fact
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Appendix: How to Apply These Terms to Your New Libraries

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

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

1.70 wr-init 1.0

1.70.1 Available under license :

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

License: MIT

Found in path(s):
* /wr-init-1.0-r0.0.src.rpm-cosi-expand-archive-ZuOYZ9vx/wr-init.spec

1.71 lttng-ust 2.12.1

1.71.1 Available under license :

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of
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits
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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 modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

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

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

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

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

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

collective works based on the Library.

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this

License.
Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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

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facilities. This must be distributed under
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Sections above.

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THANKS

Thanks to Ericsson for funding this work, providing real-life use cases,
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1.74 opkg 0.4.4

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1.76 libatomic 10.3.0

1.76.1 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-10 source package is taken from the SVN gcc-10-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-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	
Objective C++	gobjc++-10		
Modula-2	gm2-10	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++6-10-dbg	libstdc++6-10-pic
D	libphobos-10-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-10-base	Base files common to all compilers
gcc-10-soft-float	Software floating point (ARM only)
gcc-10-source	The sources with patches

Ada:

libgnat-util10-dev, libgnat-util10	GNAT version library

C:

cpp-10, cpp-10-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 packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm

- libssp
- libstdc++-v3
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  Written by Tobias Burnus <burnus@net-b.de>

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libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

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The DMD Compiler implementation of the D programming language:
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The Phobos standard runtime library:
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1.78 libcroco 0.6.13

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Name: libcroco
Summary: A CSS2 parsing library
Version: 0.6.13
Release: 1
License: LGPLv2
Source: http://download.gnome.org/sources/libcroco/0.6/%{name}-%{version}.tar.xz

```
Patch1:         0001-Disable-gtkdoc.patch

BuildRequires:  pkgconfig
BuildRequires:  glib2-devel
BuildRequires:  libxml2-devel

%description
CSS2 parsing and manipulation library for GNOME

%package devel
Summary:        Libraries and include files for developing with libcroco
Requires:       %{name} = %{version}-%{release}

%description devel
This package provides the necessary development libraries and include
files to allow you to develop with libcroco.

%prep
%setup -q -n %{name}-%{version}/%{name}
%patch1 -p1

%build
./autogen.sh --disable-static --prefix=%{_prefix}
make %{?_smp_mflags} CFLAGS="$CFLAGS -fno-strict-aliasing"

%install
%make_install
find $RPM_BUILD_ROOT -name
 '*.la' -exec rm -f {} ';'

%check
make check

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%files
%license COPYING COPYING.LIB
%doc AUTHORS NEWS README
%{_bindir}/csslint-0.6
%{_libdir}/*.so.*

%files devel
%{_libdir}/*.so
%{_includedir}/libcroco-0.6
%{_bindir}/croco-0.6-config
```

%{_libdir}/pkgconfig/libcroco-0.6.pc

Found in path(s):
* /sailfishos-libcroco-0-6-13-0-g1d0b526-tar-gz/sailfishos-libcroco-1d0b526/rpm/libcroco.spec

1.79 berkeley-db 5.3.28

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1.80 ipmi-tool 1.8.18

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1.81 unzip 6.0

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3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP

will provide support for the altered versions.

4. Info-ZIP retains the right to use the names "Info-ZIP," "Zip," "UnZip," "UnZipSFX," "WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source and binary releases.

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
replace their copyright notes by the Info-ZIP License.

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

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the

responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); 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
  * license terms:
  *
  *         "You may incorporate this sample code into your
  *          applications without restriction, though the
  *          sample code has been provided "AS IS" and the
  *          responsibility for its operation is 100% yours.
  *          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."
```

The usage terms of this copyright note are compatible with the
Info-ZIP license, they do not add further restrictions.

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):

```
   * Copyright 1989 Samuel H. Smith;  All rights reserved
   *
   * Do not distribute modified versions without my permission.
   * Do not remove or alter this notice or any other copyright notice.
   * 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 contribu-
tions as useful as we have his.

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

The following copyright applied to most of the VMS code in vms.c,
distributed with UnZip version 4.2 and later:

```
  * Copyright (c) 1992-93 Igor Mandrichenko.
  * Permission is granted to any individual or institution to use, copy,
  * or redistribute this software so long as all of the original files
  * are included unmodified and that this copyright notice is retained.
```

The following copyright applied to the new version of unshrink.c,
distributed with UnZip version 5.2 and later:

```
  * Copyright (c) 1994 Greg Roelofs.
  * Permission is granted to any individual/institution/corporate
   * entity to use, copy, redistribute or modify this software for
  * any purpose whatsoever, subject to the conditions noted in the
  * 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/*),
distributed with UnZip version 5.2 and later:

```
  * Copyright (c) 1996 Mike White.
  * Permission is granted to any individual or institution to use,
  * copy, or redistribute this software so long as all of the original
```

* files are included, that it is not sold for profit, and that this
* copyright notice is retained.

The following copyright applied to the Windows
CE GUI port, ``Pocket
UnZip," distributed with UnZip version 5.3 and later:

* All the source files for Pocket UnZip, except for components
* written by the Info-ZIP group, are copyrighted 1997 by Steve P.
* 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.

1.82 lsof 4.91

1.82.1 Available under license :

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

Notes for the distribution of lsof version 4

****
| The latest release of lsof is always available via anonymous ftp |
| from lsof.itap.purdue.edu. Look in pub/tools/unix/lsof. |
****

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Dialects Supported
==========

Lsof (for LiSt Open Files) lists files opened by processes on
selected Unix systems. Version 4 is a source reorganization of
version 3, itself a major revision of version 2. Version 4 has
been tested on:

Apple Darwin 9 and Mac OS X 10.[567]
FreeBSD 10.3, 11.0 and 12.0 for AMD64-based systems
Solaris 9

(The pub/tools/unix/lsof/contrib directory on lsof.itap.purdue.edu
contains information on other ports.)

If your favorite Unix dialect is not in the list, or if your version
of it is more recent than the ones listed, please contact me at
<abe@purdue.edu>.

Version 3 of lsof was tested on:

AIX 3.2.5, 4.1[.[1234]], and 4.2
BSDI BSD/OS 2.0, 2.0.1, and 2.1 for x86-based systems
DC/OSx 1.1 for Pyramid systems
Digital UNIX (DEC OSF/1) 2.0, 3.0, 3.2, and 4.0
EP/IX 2.1.1 for the CDC 4680
FreeBSD 1.1.5.1, 2.0, 2.0.5, 2.1, 2.1.5 for x86-based
systems

HP-UX
8.x, 9.x, 10.01, 10.10, and 10.20
IRIX 5.2, 5.3, 6.0, 6.0.1, and 6.[124]
Linux through 2.0.27 for x86-based systems
NetBSD 1.0, 1.1, and 1.2 for x86 and SPARC-based
systems
NEXTSTEP 2.1 and 3.[0123]
OpenBSD 1.2 and 2.0 for x86-based systems
Reliant UNIX 5.43 for Pyramid systems
RISC/os 4.52 for MIPS R2000-based systems
SCO OpenServer Release 1.1, 3.0, and 5.0.x for x86-based
systems
SCO UnixWare 2.1 and 2.1.1 for x86-based systems
Sequent PTX 2.1.[1569], 4.0.[23], 4.1.[024], 4.2[.1],
and 4.3
Solaris 2.[12345], 2.5.1, and 2.6-Beta
SunOS 4.1.x
Ultrix 4.2, 4.3, 4.4, and 4.5

Version 3 and its predecessor, version 2, may be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

How Lsof Works
==============

Using available kernel data access methods -- getproc(), getuser(),
kvm_*(), nlist(), pstat(), read(), readx(), /proc -- lsof reads
process table entries, task table entries, user areas and file
pointers to reach the underlying structures that describe
files
opened by processes.

Lsof interprets most file node structures -- advfsnodes, autonodes,
cnodes, cdrnodes, devnodes, fifonodes, gnodes, hsnodes, inodes,
mfsnodes, pcnodes, procnodes, rnodes, snodes, specnodes, s5inodes,
tmpnodes. It understands NFS connections. It recognizes FIFOs,
multiplexed files, Unix and Internet sockets. It knows about
streams. It understands /proc file systems for some dialects. On
many dialects it recognizes execution text and library references.
It knows about AFS on some Unix dialects.

Lsof Output
===========

The lsof output describes:

* the identification number of the process (PID) that has opened the file;

* the process group identification number (PGID) of the process (optional);

* the process identification number of the parent process (PPID) (optional);

* the command the process is executing;

* the owner of the process;

* for all files in use by the process, including the executing text
file and the shared libraries it is using:

  * the file descriptor number of the file, if applicable;

  * the file's access mode;

  * the file's lock status;

  * the file's device numbers;

  * the file's inode number;

  * the file's size or offset;

  * the name of the file system containing the file;

  * any available components of the file's path name;

  * the names of the file's stream components;

  * the file's local and remote network addresses;

  * the TLI network (typically UDP) state of the file;

  * the TCP state, read queue length, and write queue length of the file;

  * the file's TCP window read and write lengths (Solaris only);

  * other file or dialect-specific values.

Getting Started Quickly
==========

If you want to get started using lsof quickly, or see some examples
of how lsof can be used, consult the 00QUICKSTART file of the lsof
distribution.

The 00QUICKSTART file won't help you
 build or install lsof, but it
will cut through the density of the lsof man page, giving you more
readily an idea of what you can do with lsof.

For information on building and installing lsof, consult the 00README
file of the lsof distribution.

Limiting, Filtering, and Selecting Lsof Output
==========

Lsof accepts options to limit, filter, and select its output.
These are the possible criteria:

* Process ID (PID) number -- to list the open files for a given
  process;

* Process Group ID (PGID) -- to list the open files for all
  the processes of a given process group;

* User ID number or login name -- to list the open files for
  all the processes of a given user;

* Internet address -- to list the open files using a given
  Internet address (host name), protocol, or port (number or
  name); or to list all open Internet files;

* command name;

* file descriptor name or number;

* list all open
NFS files;

* list all open Unix domain socket files;

* list all uses of a specific file;

* list all open files on a file system.

Selection options are normally ORed -- i.e., an open file meeting
any of the criteria is listed. The selection options may be ANDed
so that an open file will be listed only if it meets all the
criteria.

In the absence of any selection criteria, lsof lists files open to
all processes.

Parsing Lsof Output with Another Program
==

The lsof -F option directs it to produce "field" output that can
easily be parsed by another program. The lsof distribution contains
sample awk, perl 4, and perl 5 scripts in its scripts subdirectory
that show how to post-process field output.

Repeat Mode
===========

Lsof can be directed to produce output, delay for a specified time,
then repeat the output, cycling until stopped by an interrupt or
quit signal. This mode is useful for monitoring the status of some
file operation
 -- e.g., an ftp transfer or a tape backup operation.

Repeat mode is more efficient when combined with lsof's selection
options, since they limit lsof overhead.

It's possible to use lsof's field output options to supply repeat
mode output to another process for its manipulation. The scripts
subdirectory of the lsof distribution has sample Perl scripts
showing how to consume lsof repeat mode output from a pipe.

Distribution Restrictions
=========================

Lsof may be used and distributed freely, subject to these limitations:

1. Neither the author nor Purdue University is responsible for
  any consequences of the use of this software.

2. The origin of this software must not be misrepresented, either
  by explicit claim or by omission. Credit to the author and
  Purdue University must appear in documentation and sources.

3. Altered versions must be plainly marked as such, and must not
be misrepresented as being the original software.

4. This notice may not be
removed from or altered in the lsof source
files.

Cautions
========

Lsof is a tool that is closely tied to the Unix operating system
version. It uses header files that describe kernel structures and
reads kernel structures that typically change from OS version to
OS version.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION,
ON ANOTHER.

On some Unix dialects, notably SunOS and Solaris, lsof versions
may be even more restricted by architecture type. An lsof binary,
compiled for SunOS 4.1.3 on a sun4c machine, for example, won't
work on a sun4m machine.

AN LSOF BINARY, COMPILED FOR ONE SOLARIS 1.X ARCHITECTURE, ISN'T
GUARANTEED TO WORK ON A DIFFERENT SOLARIS 1.X ARCHITECTURE.

Distribution Contents
=====================

The lsof distribution is checked for completeness when it is
constructed and by the Inventory script when you run the Configure
script. (See The Inventory Script section of the 00README file of
this distribution.)

Lsof is organized in these
parts:

* The main lsof directory, containing common sources,
configuration and setup scripts and three subdirectories:
dialects/, lib/, and scripts/.

Lsof is compiled in the main lsof directory after configuration.
The selected dialect sources are copied or linked from the
specified subdirectory. (Symbolic linking is the standard
method.)

Common lsof definitions may be found in lsof.h; common function prototypes, proto.h; and common storage, store.c.

* The dialects/ subdirectory contains subdirectories with sources specific to UNIX dialect implementations -- e.g., the dialects/sun/ subdirectory contains sources for the SunOS (Solaris 1.x) and Solaris (2.x) implementations of lsof. The dialects subdirectories also contain Makefiles and scripts for assisting dialect source configuration.

Dialect configuration definitions may be found in dlsof.h; other dialect definitions,
dlsof.h; dialect prototypes,
dproto.h; and dialect storage, dstore.c.

* The lib/ subdirectory contains sources for common lsof functions. Not all dialects use the functions -- some have their own versions of them. The lib/ functions are enabled and customized with #define's in the dialect machine.h header files.

* The scripts/ subdirectory contains sample scripts for processing lsof field (-F) output. The scripts are written in AWK, Perl 4, and Perl 5.

The 00PORTING file of the lsof distribution has more information on lsof components, configuration, and construction.

Warranty
========

Lsof is provided as-is without any warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The entire risk as to the quality and performance of lsof is with you. Should lsof prove defective, you assume the cost of all necessary
servicing, repair, or correction.

Bug Reports
===========

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features,

ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND A BUG REPORT ABOUT LSOF TO THE UNIX DIALECT VENDOR.

At worst such a bug report will confuse the vendor; at best, the vendor will forward the bug report to me.

Please send all bug reports, requests, etc. to me via email at <abe@purdue.edu>.

The lsof-l Mailing List
==========

Information about lsof, including notices about the availability of new revisions, may be found in mailings of the lsof-l listserv. For more information about it, including instructions on how to subscribe, read the 00LSOF-L file of the lsof distribution.

Version 3 Release Notes
==========

See 00DIST in the last lsof 3 revision 3.88, for its complete set of
release notes. Lsof revision 3.88 may be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

3.0 May 24, 1994
This is the first official release of lsof 3.

...

3.88 February 17, 1997

+=====================================+
| This is the last version 3 revision. |
+=====================================+

Added documentation files -- 00.README.FIRST[_<version>]
and 00RELEASE.SUMMARY_<version> -- to the distribution.

What's new in Version 4
==========

The main goal of version 4 was to eliminate the confusing common/ fragment source file technique. Changing the version number also provided an opportunity to restart the numbering, which at 3.88 had risen to a large value.

The sources that appeared in the dialects/common subdirectory of version 3 in fragment files have been incorporated into the version 4 liblsof.a library as *.c files. This results in significant changes to many source files, scripts, and Makefiles of all dialect versions.
It allows elimination of some source files -- ddev.c, dfile.c, dmnt.c -- for dialects now obtaining functions from liblsof.a that formerly came from making dialect source files by combining fragment files.

The version 4 liblsof.a sources are stored in the lib/ subdirectory of the main lsof directory. The liblsof.a functions are activated and conditioned in their source files by values #define'd in the dialect dlsof.h and machine.h header files.

Dialects that provide a private version of a library function refrain from #define'ing the symbol that would activate the library function code.

Version 4 Release Notes
=======================

4.0 February 24, 1997

+====================================+
| This is the first lsof 4 revision. |
+====================================+

Reorganized sources: eliminated code fragment files and created a library in their place. Modified or deleted many dialect source and header files. Changed documentation accordingly.

Added
a warning to sgi/Makefile and 00FAQ that advises against using the IRIX C compiler -n32 option when compiling lsof. Thanks go to Peter Ilieve <peter@memex.co.uk> for bringing this to my attention.

Dropped IRIX 5.2 in mid-stream, because my 5.2 test system was upgraded to 5.3.

4.01 March 3, 1997
Added TFS support for Pyramid dialects.

Added test to Configure and to the IRIX dnode.c
for the different cnode struct that appears in
<cachefs/cachefs_fs.h> on the 6.2 IMPACT distribution.
Heddy Boubaker <boubaker@amfou.cenatls.cena.dgac.fr>
alerted me to the cnode change and helped test this
lsof adjustment.

Shut down the lsof child process before doing a -r
sleep(). A comment from Dan Mercer <dam@mmm.com>
prompted this.

4.02 March 21, 1997

Based on a report from Pasi Kaara <Pasi.Kaara@atk.tpo.fi>,
disabled HP-UX CCIT support in lsof for HP-UX
versions 10 and above. Pasi's report also led to
changes in the HP-UX machine.h to support use of
gcc
to compile lsof for HP-UX 10.20 and warnings
against using `cc -Aa` or `gcc -ansi` to compile
lsof under HP-UX 10.x.

With help from Richard Allen <ra@hp.is> taught
HP-UX 10.x lsof to name file systems better by
using the virtual file system device number. Elias
Halldor Agustsson <elias@rhi.hi.is> provided a test
system.

Changed NEXTSTEP and UNIXWARE Makefiles to use
safer quoting when generating version.h. The change
was suggested by Bob Farmer <ucs_brf@unx1.shsu.edu>.

Added SHELL=/bin/sh string to all Makefiles.

Added support for Linux 2.1.28 on a test system,
kindly provided by Jonathan Sergent <sergent@purdue.edu>.
Configure tests the Linux 2.1.x's C library lseek()
function for proper handling of kernel offsets.
If lseek() appears suspect, Configure activates
the use of a private lseek() function. Changed
the private nlist() function to nlist_private()
and taught it to use the query_module() syscall in
place of the deprecated get_kernel_syms()
one.
Added rudimentary AX.25 support for Pierfrancesco

Caci <ik5pvx@infogroup.it> who helped test it.
Updated the old get_kernel_syms() code to recognize
and skip module name entries.

Prompted by Marty Leisner <leisner@sdsp.mc.xerox.com>,
eased the requirement that service name lookup for
the -i option be accompanied by a protocol name. The
name is not needed if both TCP and UDP names yield the
same port number.

Added xusers.awk script from Dan Mercer <damercer@mmm.com>
to the distribution scripts/ subdirectory.

Changed Configure script to use LSOF_VERS for all
UNIX dialect version numbers and to pass LSOF_VERS
to the dialect Mksrc functions. Also added the
ability for a dialect stanza to declare a different
dialect Makefile source. Modified dialect Mksrc
files -- e.g., linux and sun -- accordingly.

Added support for BSD/OS 3.0 with help from Jim
Reid <jim@mpn.cp.philips.com>. Terry Kennedy
<TERRY@spcvxa.spc.edu> kindly provided
a test
system. During the port corrected a bug that
prevented proper handling of revoked files.

4.03 April 7, 1997
At the suggestion of Dan Mercer <damercer@mmm.com>,
made HP-UX building of lsof aware of differences
between the HP-UX bundled and unbundled C compilers.

Added the ability for the lsof builder to define the
default warning message issuance state. By default the
issuance of warning messages is disabled; defining
WARNINGSTATE in machine.h disables it. The Customize
script was updated to handle WARNINGSTATE. Dan Mercer
suggested this.

Eliminated compiler complaint about improperly cast
get_Nl_value() argument in ncache_load() in lib/rnch.c.

Corrected zeromem() argument error in SCO dproc.c.
Sped up parent directory cache lookup slightly.

Updated for PTX 4.4, including additional VxFS (EFS)
file system support.

4.04 April 17, 1997
At the suggestion of Bela Lubkin <belal@sco.COM>
changed device cache handling to be more tolerant
of
a device cache file whose [cm]times are older
than the ones on /dev or /devices. The change
required adding information to Solaris device cache
file clone lines, so the first time lsof 4.04 is
run under Solaris it will complain about a bad
cached clone device in a previous device cache
file, then regenerate it.

Added boot file path detection for SCO OSR 5 and
above, based on information supplied by Bela.

Fixed two bugs in DEC OSF/1 lsof -- an error in
reporting locks and a missing continue statement
in readdev() after a failure to open a directory.
Jan Ole Suhr <josuhr@informatik.tu-clausthal.de>
reported the second bug and supplied a fix.

Fixed XFS problems with IRIX 6.2 by abandoning the
idea that SGI will distribute XFS header files and
defining an lsof-private xfs_inode structure. John
Paul Morrison <John.Paul.Morrison@MultiActive.com>
helped develop and test the 5.3 definition. John
R. Vanderpool <fish@daacdev1.gsfc.nasa.gov> helped
develop
and test the 6.2 definition.

Remove obsolete comments about common/*.frag files.

Updated Linux lsof for Linux version 2.1.35.

4.04 April 18, 1997
Supplement Regenerated the 4.04 distribution to correct a non-
device-cache #define misplacement in the Solaris and
SunOS dlsof.h. Alexandre Oliva <oliva@dcc.unicamp.br>
reported the problem.

4.05 April 24, 1997
Corrected an error in 00DCACHE.

Made sure SCO /etc/ps/booted.systems is closed.

Based on an observation by Bela Lubkin <belal@sco.COM>
that the lsof child had needless file descriptors
open, closed all but the open pipes between the

lsof parent and child.

Decommissioned CDC EP/IX support; I no longer have a test system.

Based on a suggestion from Patrick Connor <connor@phreak.csd.sgi.com>, added -xansi to CFLAGS for IRIX 5.3 and 6.[234].

Also at Patrick's suggestion changed Configure to propagate exact SunOS 4.1.x version to the main and library Makefiles. This allowed the sunos413 and sunos413cc Configure abbreviations to be shortened to sunos and sunoscc.

Updated obsolete argument uses (-H changed to -n) in count_pf.perl* and watch_a_file.perl scripts.

Adjusted Solaris 2.6 lsof for Beta_Update with tips from Casper Dik <casper@holland.Sun.COM>.

Fixed a Solaris 2.4 TCP address reporting bug.

4.06 April 30, 1997

Added a step to the Makefile clean rules that does a make clean in the lib subdirectory; suggested by Casper Dik <casper@holland.Sun.COM>. (Configure's -clean argument already did this.)

Fixed an incorrect awk argument in the sunos*) Configure stanza, reported by Alexandre Oliva <oliva@dcc.unicamp.br>.

Added CD9660 (aka ISO) file system support to FreeBSD, NetBSD, and OpenBSD with mods and help from Kenneth Stailey <kstailey@disclosure.com>. (BSDI already had CD9660 support.) While at it, added file descriptor system support to BSDI and FreeBSD.

Added /kern file system support to OpenBSD. The support wasn't extended to BSDI, FreeBSD, or NetBSD, because it requires Kenneth Stailey's changes to /sys/miscfs/kernfs/kernfs.h.

Updated IRIX 6.3 support after getting access to

a test system, provided by John Paul Morrison
<John.Paul.Morrison@MultiActive.com>. Improved
the handling of IRIX 5.1 and greater FIFOs.

4.07 May 12, 1997
Based on AIX problem reports from David Capshaw
<David.Capshaw@SEMATECH.Org>, changed the aix*
Configure script stanza to avoid -bnolibpath for
gcc (which the GNU loader doesn't grok) and AIX
below 4.1.4 (where -bnolibpath hasn't been tested
or is known to be unimplemented), and to refuse to
use gcc for compiling lsof in AIX versions below
4.1 (because of possible structure alignment
problems). Updated 00FAQ appropriately.

Added OpenBSD support for EXT2FS. This support
has yet to be tested.

Tested lsof under OpenBSD 2.1.

Activated /kern file system support for NetBSD when
Configure senses that /sys/miscfs/kernfs/kernfs.h
defines
the kern_target structure. This support
has not been tested under NetBSD, although it has
been tested under OpenBSD.

Made some simple changes to the BSDI machine.h,
suggested by Jeffrey C. Honig <jch@bsdi.com>.

Improved handling of alternate dialect Configure
abbreviations -- aix and aixgcc, hpux and hpuxgcc,
solaris and solariscc, and sunos and sunoscc.

4.08 May 23, 1997
Cleaned up dialect Makefile's, staring with a suggestion
from Christopher Schanzle <chris@cam.nist.gov>.

Improved Configure's -clean processing.

Corrected bugs in Solaris lock reporting.

Changed NetBSD Configure stanza to put -I/usr/include
before -I/sys.

4.09 June 1, 1997
Adjusted for latest FreeBSD 3.0 release. This
required adding a new kernel name cache module for

reading BSD-form hashed kernel name cache entries,
rnmh.c, to the lsof library, and adding a #define
to each machine.h to select it.

Activated rnmh.c for BSDI 2.1, BSDI 3.0, NetBSD
1.2,
and OpenBSD 2.1.

4.10 June 8, 1997
Adjusted for Linux 2.1.x (x > 35) kernels with
hashed task structure pointers. Marty Leisner
<leisner@sdsp.mc.xerox.com> and Jonathan Sergent
<sergent@io.com> tested the adjustment.

Replaced readdev() stat() calls with lstat() to
reduce device table and cache entries with the same
device number and inode values. Added code to
remove all remaining duplicates. This fixes a
Linux problem reported by Jonathan Sergent and
makes device node name output predictable.

Corrected a bug in UnixWare stream file handling
that prevented searching for the stream file by
its associated character device name.

Added Pyramid code to determine Reliant UNIX clone
major device number differently from that of DC/OSx.

4.11 June 12, 1997
Changed Configure to sense that the PTX inp_[fl]addr
members of the inpcb structure of <netinet/in_pcb.h>
have a struct type and set HASINADDRSTR for use in
PTX dnode.c and dsock.c tests.

Changed
PTX version 4.1.4 tests to use 4.1.3 instead.
Carson Wilson <carson@mcs.com> reported the need
to do this and tested the change.

Fixed a block device table indexing bug in lib/rdev.c,
reported by Carson Wilson. The same bug was squashed
in pyramid/ddev.c.

Added code to the Pyramid Reliant UNIX kread()
function to compensate for an address boundary
error in the kernel's /dev/kmem driver.

Verified that lsof compiles and works under AIX

4.2.1. Added an AIX test for the presence of NFS
header files, defined HAS_NFS and adjusted AIX
dialect sources accordingly.

Based on a suggestion from Gaylord Holder
<holder@phy.ucsf.EDU>, added DEC OSF/1 code to
auto-detect the booted file, whence kernel symbol
addresses are obtained.

4.12 June 24, 1997
Corrected a device number sign extension problem
in the reading and writing of device cache file.
The problem was reported by Bela Lubkin <belal@sco.com>
and he suggested a fix.

Fixed an SCO
stream device lookup problem. The
report and solution came from Bela Lubkin

Enhanced the Configure script to enable cross-
configuration of lsof, based on suggestions from
Marty Leisner <leisner@sdsp.mc.xerox.com>. A new
documentation file, 00XCONFIG, describes the process.

Made Pyramid OBJFS support conditional on the
presence of supporting header files. Corrected
the Pyramid MkKernOpts script so it generates the
necessary -D's for the Nile/Jolt architecture.
Richard Coley <rcoley@pyra.co.uk> helped.

Added another IRIX xfs_inode variant for 6.2, 32
bits, no XFS rollup patch.

Tested under UnixWare 2.1.2.

4.13 July 9, 1997
Taught Pyramid lsof to grok ttyfs vnodes with help
from Richard Coley <rcoley@pyra.co.uk>. Fixed some
minor bugs in Pyramid FIFO reporting. Eliminated
use of the Pyramid UCB compatibility library at
Richard's suggestion.

Eliminated reporting of "strange" inode numbers
for SCO OSR 3.2v5.0.x HPPS files with help from
Bela
Lubkin <belal@sco.com>

Modified port to service name lookup to use a small

number of getservbyport() calls before reading the
entire map with getservent(). Changed port reporting
to represent a zero as `*' to be consistent with
other prt number reporting tools like netstat.
Casper Dik <casper@holland.Sun.COM> suggested these
changes -- the getserv*() one to improve performance
for large NIS service name maps.

Changed all readdev() functions to make the absence
of block devices a warning instead of a fatal error
after Brian Redman <ber@ms.com> reported his IRIX
6.4 system had no block devices. (It really did
have block devices, but readdev()'s lstat() use
caused it to miss them in a directory symbolically
linked from /dev/dsk->/hw/disk.) Fixed Brian's
real problem by changing the IRIX readdev() to use
stat() on /dev nodes if a Configure test shows /hw
is readable. Extended the potential to do the same
to all readdev() functions.

For
consistency and convenience changed some
Configure abbreviations and dialect subdirectory
names: "decosf" abbreviation and "osf" dialect
subdirectory name to "du"; "netbsd" dialect
subdirectory name to "n+obsd"; "next3" abbreviation
and "next" dialect subdirectory name to "ns"; "sco"
abbreviation and dialect subdirectory name to "osr";
"sgi" dialect subdirectory name to "irix"; and
"unixware" abbreviation and dialect subdirectory
name to "uw".

Added #if/#endif clauses to the AIX rmdupdev()
function to avoid clone processing for AIX versions
less than 4.1.4. The problem was reported by Toralf
Foerster <toralf.foerster@io-warnemuende.de>, who
supplied corrective code.

Added support for new style NetBSD inode with i_ffs
and i_e2fs union members.

Improved Configure and 00FAQ information on Digital
UNIX configuration subdirectory with suggestions
from Brad Krebs <brad@EECS.Berkeley.EDU>.

4.14 July 22, 1997
Reorganized the Solaris handling of

the inode
structure header file, ufs_inode.h, to eliminate
VxFS structure definition conflicts for Solaris
2.4, based on information from Greg Earle
<earle@netbsd4me.jpl.nasa.gov>.

Cleaned up some typos and confusion in Configure's
help output, based on comments from Bela Lubkin
<belal@sco.com>

Added a 00DIALECTS file, containing UNIX dialect
version numbers, that can be used by Configure and
the man page.

4.15 August 15, 1997
Aligned `Configure -help` output better. Removed
Configure's 2.6 Beta test adjustments.

Added improved Solaris VxFS configuration and
handling, based on information from Greg Earle
<earle@netbsd4me.jpl.nasa.gov>.

Added socket state -- TCO or TPI -- for socket
files at the suggestion of Ian Fitchet
<I.D.Fitchet@ftel.co.uk>.

4.16 September 25, 1997
Added reporting of TCP/TPI queue lengths and window
sizes ala netstat to NAME column. Added -T option
to select or de-select TCP/TPI info reporting.
(Window sizes are
only reported for Solaris.)
Fixed anomalies along the way in SIZE/OFF processing
for some dialects.

Fixed service name argument processor to allow
minus signs as part of the name. Consequently this
disallows names with embedded minus signs from
being specified as the start of a range.

Added 00FAQ entries explaining why lsof won't find
a file being edited with vi, why window sizes aren't
reported for all dialects, and what the "no more
information" message means.

Forced Pyramid CC to be /usr/ccs/bin/cc to avoid
accidental use of the BSD variant in /usr/ucb/cc.

Added support for Linux glibc2, including a Configure test; cross-Configure support (00XCONFIG); and much unfortunate and risky sleight-of-hand in lsof Linux dialect header and source files, forced upon lsof by incompatibilities between Linux kernel and glibc2 header files.

Included in scripts/identd.perl5 a Perl 5 implementation of an identd server, using lsof, provided by Kapil Chowksey
<kchowksey@hss.hns.com>.

Updated IRIX 6.4 xfs_inode guess.

4.17 October 14, 1997
Added -V option for verbose search result reporting. Verbose reports are prepared for failure to locate file names, command names, Internet addresses or files, login names, NFS files, PIDs, PGIDs, and UIDs.

Augmented Linux NFS file test to cope with kernels whose NFS code is in a loadable module. Need for the test was pointed out by Jonathan Sergent <sergent@csociety.ecn.purdue.edu>. The change required that Linux have private dmnt.c source,

Completed a Linux 2.1.57 port on a system provided by Jonathan Sergent.

4.18 October 25, 1997
Eliminated memory leaks in alloc_lfile(), lkup_port(), and NEXTSTEP's process_text() function.

Added recognition of OpenBSD 2.2 in Configure, supplied by Kenneth Stailey <kstailey@disclosure.com>.

Consolidated print_file() functions to use the one in lib/prtf.c. Made it configurable and changed it to size print columns dynamically.

!!!
WARNING !!!

WITH DYNAMICALLY SIZED PRINT COLUMNS LSOF 4.18 PRODUCES OUTPUT SIGNIFICANTLY DIFFERENT FROM THAT OF PREVIOUS REVISIONS. LINES ARE GENERALLY SHORTER AND THERE IS GENERALLY LESS BLANK SPACE BETWEEN COLUMNS AND THE ITEMS IN THEM. THERE ARE NO LONGER

ANY SPACES BETWEEN DEVICE NUMBER ELEMENTS, ONLY
COMMAS.

!!! WARNING !!!

Added special types and print specification modifiers
for file size and offset to handle UNIX dialects
with 64 bit sizes and offsets. Paul Eggert
<eggert@twinsun.com> reported the need for this
addition.

With Paul Eggert's help picked lint from the lsof
library, the main level lsof sources, and the Sun
dialect sources.

Added documentation, including the file 00LSOF-L,
about the lsof-l LISTSERV.

Added support for Reliant UNIX on the RM600. Bob
Passarella <rmpassar@pyramid.com> supplied the
changes. Kevin Smith <kevin@pyramid.com> helped
arrange test systems. While incorporating Bob's
changes,
modified lib/rnch.c to handle kernel ncache
structs whose name is accessed via a char *, rather
than in a char array.

Changed #include order of <sys/socketvar.h> for
Solaris 2.x. W. Richard Stevens <rstevens@kohala.com>
pointed out the need to do this.

4.19 October 30, 1997
Changed Pyramid Reliant RM600 proc scan to skip
SSYS (p_flag) processes, since they don't seem to
have a readable u_cdir vnode.

Enabled Pyramid Reliant UNIX kread() work-around
for DC/OSx, too, since its read(/dev/kmem) kernel
driver seems to share the page boundary bug this
work-around circumvents.

Changed SzOffFtm_d and SzOffFtm_dv (new formats at
4.18 to print size and offset) from signed to
unsigned. Setting them signed at 4.18 was an
oversight.

Plugged a memory leak that caused the loss of 130
bytes per repeat-mode pass. Fixed it with a simple

work-around in main(). Lionel Cons <Lionel.Cons@cern.ch>
reported the leak.

4.20 November 11, 1997
Tested under
BSDI 3.1.

Added support for Reliant UNIX Mesh IPC files with
help from Billy Ho <bho@pyramid.com>.

Added support to Digital UNIX lsof that uses the
libmsfs tag_to_path() function (when it exists) to
look up AdvFS path names. The idea and sample code
came from Dean Brock <brock@cs.unca.edu>. Converted
Dean's code into more general purpose support for
private name cache lookups via the HASPRIVNMCACHE
#define in the dialect machine.h file and code
conditional on it in the printname() function.

Taught Digital UNIX lsof to recognize NFS3 file
systems. Corrected Digital UNIX lsof DEVICE column
alignment.

4.21 December 1, 1997
Squashed bug, introduced at revision 4.18, that
resulted in double reporting of each selected PID
when terse mode (-t) was specified.

Corrected minor bug, also introduced at 4.18, that
might cause an extra print_proc() pass when one
PID has been specified.

Added -R to lsof options in scripts/idrlogin.perl*.
The option
should have been there -- it was supposed
to be mandatory for PGID reporting -- but a bug,
corrected in revision 4.18, previously made -R
unnecessary.

Enabled configuring for BSDI BSD/OS 4.0 per a
suggestion from Jeff Honig <jch@bsdi.com>.

Enabled replacement of scoff_t with off64_t (scoff_t
is used to type r_size and r_localsize in the rnode
struct) for IRIX 5.3 systems that have the NFS
kernel rollup patch (1477). This compensates for
SGI's failure to distribute an updated <sys/fs/rnode.h>
with their patch.

Validated under Linux 2.0.3[12], Linux 2.1.64, and
NetBSD 1.3.

Added FreeBSD root directory reporting, courtesy
of Dan Nelson <dnelson@emsphone.com>.

4.22 December 15, 1997
Made adjustments for Linux 2.1.7[02].

Improved NAME information for Linux UNIX domain
sockets.

Added option +|-M to control the reporting of
portmapper registration information in square
brackets after the TCP or UDP port or service name.
Kenneth Stailey <kstailey@disclosure.com>
suggested
the feature and provided sample code from OpenBSD.
Reporting is disabled by default in the distribution
and may be enabled with +M; if lsof is compiled
with HASPMAPENABLED (e.g., from machine.h), reporting
will be enabled by default and can be disabled with
-M.

Changed the -w option to +|-w to match the syntax
of the +|-M option and to eliminate any options
that flip meaning when a symbol is defined at
compile time. For both +|-M and +|-w, specifying
`-' when the default state is disabled or specifying
`+' when the default state is enabled causes no
problems.

!!!WARNING The -w option has changed in lsof 4.22. WARNING!!!

Made the +|- prefix legal for most options, but
didn't document it in the man page or help panel.
Most options that disable something -- e.g., -b,
-C, -n, -P -- now disable when the prefix is `-'
and enable when it is `+'. Since the states these
options disable are enabled by default, I chose
to
avoid documentation complexity and confusion by
not mentioning that they can be used with the `+'
prefix.

Condensed the help panel.

Made sure Digital UNIX Configure stanza puts normal
include path (e.g., /usr/include) before system
include paths.

Added IPX socket information reporting to Linux
with help from Jonathan Sergent <sergent@purdue.edu>.

4.23 January 16, 1998
Fixed conflict arising from the quondam replacement
of the Sun Solaris <netdb.h> with a BIND/BSD version.

With help from Jonathan Sergent <sergent@purdue.edu>
developed a /proc file system based Linux lsof.
It needs some Linux 2.1.x release to work -- I'm
not sure which, but I tested under 2.1.72, 2.1.76,
and 2.1.79. The Configure script selects special
sources for this lsof, so the full lsof distribution
now contains both /dev/kmem and /proc based sources
for Linux lsof. An optional kernel mod, written
by Jonathan, enhances the /proc-based lsof ability
to recognize
IPX socket files. Reorganized and
augmented the Linux sections in 00FAQ to explain
the two types of Linux lsof.

Defined DOSTAT_FUNCTION for dostat() in misc.c to
select the function, stat() or lstat(), it will use.
DOSTAT_FUNCTION is normally undefined, defaults to
lstat(), and is only defined for the /proc-based
Linux lsof in its dlsof.h.

Made conditional on the presence of IRIX 6.4 XFS
rollup patch #6 an XFS node change introduced in
revision 4.16. Identified the patch with help
from John R. Vanderpool <fish@daacdev1.gsfc.nasa.gov>.

Added NFS node compensation for NetBSD 1.3. The
code and suggestion for it was supplied by Jean-Luc
Richier <richier@imag.fr>.

Added diagnostic messages to the /dev/kmem-based
Linux Mksrc script to report errors during the
construction of the kernel name cache header file,
kncache.h. Added 00FAQ information on kncache.h.

Added a new Linux test host, running 2.0.33 and
GlibC, provided by Steve Logue <stevel@mail.cdsnet.net>.

Ported
to PTX 4.1.3 and 4.4.2. Adjusted lib/rnch.c
for 4.4.2 to allow customization f additional ncache
struct element names.

4.24 January 28, 1998
Changed /proc-based Linux lsof offset test to use "/"
instead of "/etc/passwd".

To assist Jim Mintha <jim@geog.ubc.ca> with the
packaging of lsof for Debian Linux, added a
DEBIAN_LINUX_LSOF #define to trigger the activation
of special system map file location code in the
/dev/kmem-based dproc.c.

Applied modification to dialects/bsdi/dlsof.h from
Ingimar Robertson <iar@skyrr.is>, enabling lsof to
compile for BSDI BSD/OS 2.0.

Corrected a documentation error in 00DCACHE, pointed
out by Thomas Anders <anders@hmi.de>. The error was
created when the -V option was added at lsof 4.17.

Made IRIX 5.3 through 6.3 lsof aware of IRIX SCSI
tape devices (e.g., /dev/tape). Dave Olson of SGI
and Randolph J. Herber of FNAL provided valuable
advice, and Igor Schein <ischein@air-boston.com>
helped
test.

Added a machine.h symbol (NEVER_HASDCACHE) that
prevents Customize from offering to change HASDCACHE.
The symbol may appear anywhere in machine.h --
e.g., in a comment. Included the symbol in a
comment of the HASDCACHE section of the /proc-based
Linux lsof machine.h, and accompanied it with
warnings against #define'ing HASDCACHE. Did the
same thing for WARNDEVACCESS (NEVER_WARNDEVACCESS
is the suppressant.)

4.25 February 7, 1998
Corrected an IRIX mis-cast of file offset (position).
Igor Schein <ischein@air-boston.com> reported the
problem. This was offered as a patch to 4.24.
Picked some lint Igor pointed out.

At Igor's suggestion added an optional decimal
digit size argument to the -o option. This argument

specifies how many file offset decimal digits can
follow "0t" before lsof switches to a "0x..." form.
The argument size specification doesn't count the
two characters of the "0t". A size of 0 means
unlimited. The default
is OFFDECDIG (8), preserving
compatibility with existing lsof output; it can be
changed by the lsof builder. When size is specified
with -o it does not force offset display; -o without
a size still must be used to do that.

Added an IRIX 6.2, 32 bit system, XFS node patch,
courtesy of Ulrich Bernhard <rzubu@rzu.unizh.ch>.

For my own convenience enabled Configure to use
/usr/local/bin/gcc for NEXTSTEP. This allows
circumvention of a gcc 2.8.0 ranlib problem on
my test 3.1 `040 cube.

Added flags recommended by the RISC/os and Ultrix
compilers for the updated (and longer) main.c.

Updated FreeBSD cd9660_node.h Configure test.

4.26 February 17, 1998
Added shared process group processing for IRIX 5.3,
and IRIX 6.1 and above, based on investigation of
a bug report from Igor Schein <ischein@air-boston.com>.
Igor helped test this addition.

Improved handling of file system name arguments.
It's now done in a manner similar to fuser. The
-f argument
forces path names to be considered as
simple files, rather than as file system names.
The +f flag forces them to be considered as file
system names. Normally path arguments are considered
file system names when they match a mounted-on
directory in the system's mount table, or when they
match a mounted file system's block device. Igor
Schein helped test this change.

Igor also suggests that the proper compilation of
the IRIX 6.4 proc structure after patch 2536 has
been installed may need -DPIOMEMOPS. So lsof's
MkKernOpts script was updated to propagate that
option from CCOPTS in /var/sysgen/system/irix.sm,
even though patch 2536 doesn't add -DPIOMEMOPS to

it. Added a 00FAQ item on this patch.

Added a fatal warning message about names forced
to be file system names (with +f) that have no
match in the mount table.

Improved the -V message for files and file systems
for which no open files were found. Added reporting
of /proc file and file system
search failures.

Did some code reorganization to combine the multiple
ck_file_arg() functions into one. Moved the new
function from the library to the top level and put
it in arg.c; moved the usage function from arg.c
to a new top-level source file, usage.c, to balance
top-level source file size. The new usage.c depends
on version.h; arg.c no longer does.

Added flag recommended by the DU compiler for the
updated (and longer) main.c.

4.27 March 6, 1998
At the request of Igor Schein <ischein@air-boston.com>
added a conditional repeat mode option, using the
`+' prefix to the `r' option. +r operates as does
-r with the exception that it exits the first time
no open files have been listed during a cycle.
The exit code will be zero when any open files have
been listed; one, if none were ever listed.

Ported lsof to HP-UX 11.0 with the help of Richard
Allen. This port hasn't been tested on a 64 bit
kernel; I'm sure it won't work there without
more
mods. It may not work on PA 2 architectures; I've
only tested it under PA 1 and a separate, busy
tester reported PA 2 problems that I've been unable
to investigate.

In anticipation of getting access to a 64 bit HP-UX
kernel and the pending start of the Solaris 2.7
Beta test (It will have 64 bit kernel addressing.),
started adding support for 64 bit kernel pointers.
This includes: ubiquitous use of the KA_T cast
for kernel pointers; a format to print them,
KA_T_FMT_X; a function to print them, print_kptr();
and modifications to most kernel-related functions

-- e.g., process_file(), process_node(),
process_socket(), readvfs() -- to process kernel
addresses as KA_T types.

Fixed minor bug in handling path name arguments
that end with a `/'.

Removed support for RISC/os; its test system is no
longer available.

Made modifications to insure that lsof output
doesn't contain non-printable characters. All such
characters are now printed in
the printf form
"\x%02x". Several new common functions were
installed in misc.c to support "safe" printing.
This second major modification in 4.27 to common
and dialect code could have introduced bugs not
yet detected.

4.28 March 10, 1998
Refined unprintable format to use \b, \f, \r, \n,
\t, and ^* (for CTRL) forms. Corrected omission
of safestrprt() use for field output command name.
These changes were offered as patches to 4.27.

Made space an unprintable character (\x20) in the
COMMAND column; printable elsewhere, including the
NAME column, field output, and error messages.

Made sure FD column is parseable as a single entity
-- i.e., has no embedded space. Thus, if the access
mode is unknown but there is a known lock mode, (a
very rare case) the access mode will be printed as
`-'.

Picked lint with gcc 2.8.0 under Solaris 2.6.

With the help of Dave Olson of SGI identified a
proc struct element that should have been added to
<sys/proc.h>
by IRIX 6.4 patch 2536. Added a
work-around for it to the lsof Configure script.
Igor Schein <ischein@air-boston.com> identified
that the patch caused a proc structure length
complaint from lsof. Removed an obsolete 00FAQ
item on the patch, installed at lsof 4.26, explaining
that no solution was yet available.

Added a 00FAQ item on how BIND installs its own
header files, including <netdb.h>, which may cause
the rpcent struct definition to vanish. Solaris
has an automatic lsof work-around, but that hasn't
been (and probably can't be) propagated to all
dialects supported by lsof. The 00FAQ item recommends
re-installation of the vendor header files that
BIND has replaced. (Others include <rpcent.h>,
<sys/bitypes.h>, and <sys/ctypes.h>.)

Made AIX AFS fixes.

4.29 March 26, 1998
Corrected bug in Internet address matching. The
matching formerly stopped if the foreign address
matched, thus failing to check the local address
for a match. That
led to a possible false "Internet
address not located" warning (i.e., in response to
-V) about the local address, when both foreign and
local addresses were specified with -i. This
correction was offered as a patch to 4.28.

Changed readmnt() usage in an attempt to defer
mount readlink() and stat() delays until they are
necessary.

Corrected two bugs in the Digital UNIX readdev()
function. Made the correction available as a patch
to 4.28 and regenerated the 4.28 DU binaries.

Added a missing argument to a print-kptr() call in
the HP-UX dsock.c. The missing argument causes a
fatal gcc error. The problem was reported by Eyal
Shaynis <eyal.shaynis@telrad.co.il>. The fix was
offered as a 4.28 patch.

Adjusted for Digital UNIX 4.0D; the spec_node
structure is now defined in <sys/specdev.h>. Kris
Chandrasekhar <Kris.Chandrasekhar@digital.com>
identified the need for the adjustment.

Incorporated a bug fix from Brian McAllister
<mcallister@mit.edu>
to the DU readmnt() function.
This fix was offered as a patch to 4.28.

Added "safe" printing to a SunOS clone device error message.

Corrected bug in tabling of Linux /proc-based lock info.

Corrected bug in handling of SunOS TLI streams. Dan Farmer <zen@trouble.org> reported the problem.

Added a Solaris 2.6 work-around to keep the BIND <sys/bitypes.h> from colliding with the Solaris <sys/int_types.h>.

Strengthened the Configure test for /proc-based Linux lsof, based on a report from Marty Leisner <leisner@sdsp.mc.xerox.com>.

Tested on OpenBSD 2.3.

Made AIX changes that allow use with 3.2.5. The changes were suggested and tested by Brett Hogden <hogden@rge.com>.

Added Solaris 2.6 AFS support. Disabled reporting of some node numbers for Solaris 2.5 and above open AFS files. The node number computation algorithms used for SunOS 4.1.x and Solaris less than 2.5 no longer always work under Solaris 2.5 and above.

4.30 April 9, 1998

Corrected a pid structure member naming error for UnixWare < 2.1.2. The problem was reported by Richard van Meurs <vanmeurs.anva@atriserv.nl>. He supplied the correction. This was offered as a patch to 4.29.

Had a report from Igor Schein <ischein@air-boston.com> that IRIX 6.4 patch 2839 is another SGI kernel patch, along with 2536, that changes the size of the proc structure in the kernel without changing the proc structure in <sys/proc.h>. Upon further investigation found that the effect of these patches on the proc structure is not consistent. Therefore, dropped the Configure patch test for IRIX 6.4 and made the code in irix/dproc.c slightly more tolerant of proc structure size differences for IRIX 6.4. Igor help test the change.

Corrected Solaris >= 2.5 AFS inode number generation.
Craig Everhart <Craig_Everhart@transarc.com> helped
find the cause of the problem. This was offered as
a patch to 4.29.

Refined the Linux /dev/kmem-based
glibc evasion
for the timeval structure to make it work with
glibc version 2.0.7. This required defining a new
global symbol, TIMEVAL_LSOF, default timeval, that
the /dev/kmem-based Linux lsof can set to its
private glibc timeval name, distinct from the kernel
timeval name.

Added support for Alpha to the /dev/kmem-based
Linux lsof. Alexandre Oliva <oliva@dcc.unicamp.br>
provided a test system. Added an item to 00FAQ
about lsof, the Alpha processor, and Linux.

Added a 00FAQ item about lsof year 2000 compliance.
Basically it says lsof is probably compliant,
because its only date or time computations are done
with time_t values, but I haven't done any specific
Y2K validation. I don't have plans to do any.

Added support for UnixWare 7. Chris Daniels
<chrisd@dlpco.com> provided a test system and Don
Draper <dond@sco.COM> provided technical information.
Added BFS and SFS file system support to lsof for
UW 2.1.[12] and 7.

Updated Solaris VxFS
support for VxFS 3.2.1. Greg
Earle <earle@netbsd4me.jpl.nasa.gov> reported the
need for the update. Greg and Roger Klorese
<rogerk@veritas.com> provided technical information.
Scott McClung <mcclung@primenet.com> tested.

Changed IRIX XFS patch detection in anticipation of
learning there are multiple XFS patches for IRIX 6.4
that require different versions of the lsof-invented
xfs_inode structure.

4.31 April 21, 1998
Added a VxFS #if/#endif wrap to a section of the
HP-UX dnode.c that wasn't properly protected. The
problem was reported by Peter Klosky <PKlosky@bdm.com>.

This was offered as a patch to 4.30.

Added support for Solaris 2.7 (first Beta release). Mike Sullivan <Mike.Sullivan@Eng.Sun.COM> provided technical advice and helped test. Charles Stephens <cfs@jurassic.eng.Sun.COM> also helped test.

Fixed bug in /proc-based Linux that caused it to access /proc/mounts excessively. Marty Leisner <leisner@sdsp.mc.xerox.com> provided a syscall trace that identified the bug. The fix was offered as a patch to 4.30.

Adjusted the IRIX 6.4 private structure definition for the XFS node to accommodate patch 2970. Igor Schein <ischein@air-boston.com> identified the patch and the required adjustment.

4.32 May 11, 1998

Corrected Solaris 2.7 code for reporting PCFS (floppy disk) node numbers. Casper Dik <casper@holland.sun.com> supplied the fix. The fix was offered as a patch to 4.31.

Corrected a bug in conditional repeat mode handling pointed out by Igor Schein <ischein@air-boston.com>. This was offered as a patch to 4.31.

Improved reporting of AIX open(/dev/memory device) errors.

Corrected a Solaris < 2.5 KA_T declaration error, pointed out by Robert Kiessling <robert@easynet.de>. Changed KA_T from a #define to a typedef for all dialects to prevent future problems of this kind.

Changed the sample Perl 5 script big_brother.perl5 to report a four digit year from localtime().

Added support for AIX 4.3[.1]. Bill Pemberton <wfp5p@tigger.itc.virginia.edu> provided a test system. Andrew Kephart <akephart@austin.ibm.com> and Tom Weaver <tvweaver@austin.ibm.com> provided technical assistance. Niklas Edmundsson <nikke@ing.umu.se> did 4.3.1 testing.

Added -qmaxmem option to CFLAGs for an AIX compilation
with an xlc version 4.x compiler.

Adjusted Linux socket handling for changes in the
AX25 members of the sock struct. Richard Green
<rtg@tir.com> pointed out the problem. Tested
/dev/kmem-based lsof under Linux 2.0.34.

4.33 May 22, 1998
Added generic IPv6 support to common lsof sources
and specific IPv6 support to AIX sources. Andrew
Kephart <akephart@austin.ibm.com> supplied the
additions and helped with testing. Bill Pemberton
<wfp5p@tigger.itc.virginia.edu> provided a test
system. The modification affected sources for
every dialect, whether it supports IPv6 or not, by
changing the interfaces to the common Internet
address
function ent_inaddr().

Added support for the NetBSD UVM virtual memory
system. Paul Kranenburg <pk@cs.few.eur.nl> supplied
technical details.

Bracketed HP-UX 11 use of <sys/spinlock.h> with
#if/#endif _KERNEL.

Corrected printing of PCB address in DEVICE column
for IRIX.

4.34 June 26, 1998
Updated 00FAQ to discuss TCP and UDP ports private
to the AIX kernel and 00README to describe how ACLs
can be used to give lsof permission to read the
kernel memory devices. Add information to 00FAQ
and 00README about other OpenBSD architectures
where lsof is reported to compile and run. Added
section to 00FAQ discussing how an incorrect loader
path environment variable value can prevent lsof
from loading correctly.

Improved Solaris namefs and doorfs support so that
it is now possible to search for an open VDOOR file
by the path name of its fattached file system
object. Igor Schein <igor@txc.com> requested the
ability to do such a search.
Even with the change,
lsof can't always identify path names for open

VDOOR files.

Also at Igor's request, improved reporting of
information on open Solaris VCHR files that share
a common vnode, and Solaris UNIX domain socket
files.

Corrected print_kptr() argument error in PTX dnode.c,
reported by Mark Price <mprice@sequent.com>.
Compensated for ncache element naming differences,
introduced at PTX 4.4.2; Kurtis D. Rader
<krader@sequent.com> reported the problem.

Changed output column title from INODE to NODE to
better reflect the column's contents of node IDs
for more than just inodes.

Improved Configuration and processing for Solaris
AFS. Corrected AIX AFS 3.4 afs_rwlock_t simulation.

Corrected a cast problem with two AIX knlist()
calls, thus quieting an AIX 4.2.1 compiler argument
type warning. Jon Champlin <champlin@us.ibm.com>
reported the problem.

Added support to most dialect versions (exception:
/proc-based Linux) to warn when
the identity of
the kernel where lsof was compiled doesn't match
the running identity. The warning can be suppressed
with -w. Note: determining AIX state requires
calling oslevel, a potentially slow operation.
Jon Champlin <champlin@us.ibm.com> suggested this
addition.

!!!! WARNING !!!!   !!!! WARNING !!!!   !!!! WARNING !!!!

Those using the lsof cross-configuration capability
(see 00XCONFIG), should be aware that the kernel
identity test feature introduces two new basic
cross configuration environment variables, LSOF_ARCH
and LSOF_VSTR.

!!!! WARNING !!!!   !!!! WARNING !!!!   !!!! WARNING !!!!

Identified a situation where a Solaris UNIX domain
socket name is known and can be searched for by
name; added the necessary code.

4.35 July 17, 1998

Made the kernel identity check an option with the HASKERNIDCK #define in machine.h. Enabled altering of HASKERNIDCK with the Customize script. Added a clause to the help output that indicates the build-time HASKERNIDCK status.

Added more information to the NAME column for Solaris UNIX domain sockets. Made them searchable by their clone device path name. Igor Schein <igor@txc.com> requested this.

Completed the HP-UX 11 port with support for its optional 64 bit kernel. Rich Rauenzahn <rrauenza@cup.hp.com> provided a test system. Corrected errors with HP-UX 11 lock reporting and private kernel structure and type definitions. Added support for HP-UX NFS3 files.

Limited mount table warnings -- e.g., when -b is used -- to one set per mount point.

Fixed some mount table scanning and usage bugs, including one in Solaris, reported by Kjetil Torgrim Homme <kjetilho@ifi.uio.no>.

4.36 August 4, 1998

Made corrections and additions to IPv6 support and to AF_ROUTE socket handling, supplied by Jean-Luc Richier <Jean-Luc.Richier@imag.fr>. Jean-Luc's additions provide IPv6 support for the Inria IPv6 implementations on FreeBSD and NetBSD.

Fixed two Solaris 2.5, 2.5.1, 2.6 and 2.7 TCP and UDP host name or IP address reporting bugs, reported by James Mathiesen <James-Mathiesen@deshaw.com>. This fix was offered as a patch to 4.35.

Updated the Customize script to cause ENTER to use all defaults. Amir J. Katz <amir@ndsoft.com> suggested this and helped test the changes.

Updated Solaris ICMP and IP stream handling, based on a report from Igor Schein <igor@txc.com>.

Fixed a bug in the Digital UNIX mount table handling,
reported by Bob Ward <bward@thehartford.com>.
While working on the bug, found and updated some
obsolete AdvFS code. This fix was offered as a
patch to 4.35.

4.37 September 15, 1998
Deactivated SGI IRIX support and archived revision
4.36 sources and binaries in pub/tools/unix/lsof/OLD.

Improved performance of FD searching. This was
offered as a patch to 4.36.

Amir J. Katz <amir@ndsoft.com> pointed out that
ranlib isn't needed for AIX or Solaris. Made
appropriate Configure
script changes.

Fixed a file offset reporting bug for HP-UX VCHR
and VBLK device nodes located on a VxFS root. Doug
Siebert <douglas-siebert@iowa.edu> reported the
bug. The fix was offered as a patch to 4.36.

Resolved an HP-UX root device name reporting bug,
partly caused by an out-dated local copy of the
<sys/mount.h> mount structure, by generating a
local header file with the structure that can be
compiled without needing _KERNEL defined. Doug
Siebert also reported this bug.

Changed some dialect source code -- Digital UNIX,
Solaris, SunOS, and UnixWare -- to make more
consistent with ps the user ID lsof reports in the
USER column. Added a 00FAQ entry about it. Igor
Schein <igor@txc.com> reported the Solaris and
SunOS lsof inconsistencies with what ps(1) reports.

Ported lsof to Pyramid ReliantUNIX 5.44.

Added brackets as comments to case, do, done, else,
endif, esac, if, and while statements in Configure
to assist in navigating
its clauses.

Added more Linux 2.0.x glibc work-arounds.

Added support for UnixWare 7.0.1.

Ralph Forsythe <ralph@contact-paging.com> provided
a new FreeBSD test system.

4.38 November 25, 1998
Added support for recent FreeBSD 3.0 distributions.
A 3.0 test system was provided by David O'Brien
<obrien@NUXI.com>. This was offered as a patch
to 4.37.

Updated the scripts/idrlogin.perl* files to look
for sshd processes in addition to rlogind and
telnetd ones.

Added support for DU 5.0 Beta. Berkley Shands
<berkley@cs.wustl.edu> provided a test system.

Added support for OpenBSD 2.4 with changes supplied
by Kenneth Stailey <kstailey@disclosure.com>.

Changed the Solaris 2.7 tests and documentation to
Solaris 7.

Made some changes to the header files for NEXTSTEP
3.3 and added support for OPENSTEP 4.x with help
from Michael A. Hovan III <mhovan@BLaCKSMITH.com>
and Carl Lindberg <Carl_Lindberg@BLaCKSMITH.com>.
The combined dialect subdirectory
is named n+os.
One of Carl's changes propagates RC_CFLAGS to the
library Makefile. Timothy J. Luoma <luomat@peak.org>
helped test under NEXTSTEP 3.3 and OPENSTEP 4.2.

Made UW 7.x version sensitive to the presence of
ptf7038. Added peer PCB address to Unix domain
socket Name column, even when a path name has been
located. Information for these changes was supplied
by Francis Le Bourse <flebourse@intelcom.fr>. Lee
Penn <lee@dlpco.com> provided a test system.

Tested lsof under OSR 5.0.5 on a test system also
provided by Lee Penn.

Made path name argument processing more tolerant
of errors per a suggestion from Julian Gordon
<julian@cadence.com>.

Acquired a new UnixWare 2.x test system, generously
provided by Computer Classroom, Inc. -- Matthew

Thurmaier <matt@compclass.com>, Ken Laing
<ken@compclass.com>, and Andrew Merril
<andrew@compclass.com>. Updated Configure to accept
a UnixWare version of 2.1.3.

Updated kmem-based lsof for Linux 2.0.36.

Updated
NetBSD sources for a change in a UVM virtual
mapping header file.

Corrected a cache allocation bug in Sun format
kernel name cache handling. The bug only shows up
when the kernel name cache is inaccessible.

4.39 December 29, 1998
Corrected problems with large device number handling
for 64 bit Solaris 7. The problems were reported
by Steve Bellenot <bellenot@math.fsu.edu>. Steve
helped test the fixes. The fixes were offered as
two patches to lsof 4.38.

Improved FreeBSD Configure operations for header
files that must be obtained from the kernel source
tree, based on a suggestion from David O'Brien
<obrien@NUXI.com>.

For Bela Lubkin <filbo@deepthought.armory.com> made
optional with +f[cfn] the display of file structure
address, shared use count, and node structure
address. /proc-based Linux doesn't implement this
feature, because it doesn't read kernel structures
from kernel memory. Modified the PTX -X option to
take advantage
of the new file structure display
option. Added shared.perl5 to the scripts/
subdirectory to provide an example of how +f[fn]
might be used to track shared file descriptors and
files.

Added more /dev/kmem-based Linux glibc evasions,
provided by Jeff Johnson <jbj@redhat.com> and Maciej
Lesniewski <nimir@kis.p.lodz.pl>. Jeff helped test
them on various Linux architectures.

Tested on AIX 4.3.2; no changes were required.
Doug Crabill <dgc@purdue.edu> provided a test
system.

Fixed -c option to detect missing command name when following option begins with `+'.

4.40 January 25, 1999

Added support for using the CDS compiler for Reliant Unix 5.44 and above. Made Reliant Unix MIPC support optional, dependent on the presence of <sys/mipc.h>.

Based on a report from Michael Schmitz <MSchmitz@lbl.gov> that /dev/kmem-based lsof misbehaves on a Linux 2.0.x m68k kernel without module support, made the absence of query_module() or get_kernel_syms() Linux kernel support a fatal error. Updated relevant sections of 00FAQ to reflect the change.

Added the ability to force the Linux Configure stanza to use the /proc or /dev/kmem source base via a LINUX_BASE environment variable specification. This is a cross-configuration assist.

Added "+D <dir>" and "+d <dir>" options for directory searching. +D searches the entire tree, starting at <dir>, including <dir>, its contents, and its subdirectory branches; +d searches only <dir> and its contents, but not its subdirectory branches. Improved lsof's searching of the specified name list to compensate for anticipated long lists from +d and +D.

Made an egrep in the Solaris Configure stanza usable by the standard and XPG4 egrep's. Kenneth Stailey <kstailey@disclosure.com> pointed out the improvement.

Fixed bugs in /dev/kmem-based Linux and UnixWare Unix domain socket name searching.

Changed a Linux Alpha #include to be conditional on the presence of its named header file, so that lsof will compile on Red Hat 5.1 and 5.2 (Linux kernel 2.0.35) where the header file is absent. The problem was reported by Alexandre Oliva <oliva@dcc.unicamp.br>.

Fixed an AIX 4.3+ bug in procinfo struct space allocation, reported by Jeff Stewart <jws@purdue.edu>.

This was offered as a patch to 4.39.

Added an lstatsafely() function to offer the same isolation for lstat() calls that statsafely() offers for stat() calls. This made DOSTAT_FUNCTION no longer necessary, so deleted it.

With help from Laurent P. Montaron <lpm@sequent.com> ported lsof to PTX 4.4.4. Laurent did a monumental job of identifying TCP/IP changes by their TCP version, rather than by their PTX (With mix 'n match PTX and TCP/IP versions, the PTX version often has no bearing on the TCP/IP version.), and changed the Configure script and pre-processor #if/#else/#endif blocks to match. He also updated Unix domain socket handling for PTX TCP/IP versions
4.5 and above.

Updated CLIENT handle acquisition of fill_portmap() in print.c to use the more modern RPC function clnt_create() in place of clnttcp_create() where possible. PTX 4.4.4 requires clnt_create().

4.41 February 27, 1999
Added FreeBSD 3.1 and and 4.0 support with help from Sheldon Hearn <axl@iafrica.com>, David O'Brien <obrien@NUXI.com>, and John Polstra <jdp@polstra.com>.

Corrected bungled AIX 4.3+ patch that went into lsof 4.40.

Reorganized the Configure script to improve Makefile construction. A specific impetus for this was to allow FreeBSD system-wide make flags to be propagated to the lsof Makefiles, but other goals were to make sure that the DEBUG= make entry can over-ride standard CFLAGS values, and to better manage the identification of compilers and their versions.
Two compiler-related values may now be supplied in environment variables: 1) the compiler path in LSOF_CC; and 2) the compiler version in LSOF_CCV.
00XCONFIG
documents them.

Added support for Pyramid Reliant Unix bsdsfs, msockfs, and sockfs file systems.

Added an optional LSOF_CINFO string to Configure,
producing a CINFO string in selected Makefiles,
producing a #define LSOF_CINFO in selected version.h
header files. The purpose of this is to allow
Configure the option to propagate information to
the lsof -v output. It is now used for Linux to
identify the code base, and for HP-UX 10.30 and
11.0 and Solaris 7 to identify the kernel bit size.

Added system information to NEXTSTEP and OPENSTEP
-v output, from the second line of hostinfo's
output.

Fixed a login name buffer overflow problem in the
processing of -u option values. This was offered
as a patch to 4.40. !!!THIS IS A SERIOUS STACK
OVERFLOW BUG; A LINUX EXPLOIT EXISTS FOR IT THAT
OPENS A BASH SHELL WITH LSOF'S AUTHORITY -- E.G,
SETGID(KMEM) POWER!!!

Improved the Solaris mount table filter so the
volume manager's fake mount point,
"/vol", is
ignored and doesn't supplant "/" in NAME column
path assemblies. Igor Schein <igor@txc.com> reported
this bug and provided important help in finding
it. This was offered as a patch to 4.40.

Changed the Linux /dev/kmem-based lock ownership
test to answer a problem reported by Tom Christiansen
<tchrist@jhereg.perl.com>. This was offered as a
patch to 4.40.

Installed an HP-UX 11 patch, suggested by Kevin
Vajk <kvajk@cup.hp.com>, that adjusts a private
lsof kernel header file, derived via Q4, to correspond
to an HP-UX patch bundle.

Made NetBSD 1.3I sockproto structure adjustment.

4.42 March 30, 1999
Fixed a typo in the HP-UX dfile.c that caused +fF
and +fN output controls to swap effect.

Enabled for OpenBSD 2.5 per notice from Kenneth
Stailey <kstailey@kstailey.tzo.com>

Made more VM accommodations for FreeBSD 4.0.

Improved file system search reporting to include
path name components when they're available, instead
of mindlessly
reporting the file system name in
the NAME column. Guy Dallaire <gdallair@geocities.com>
brought the need for this change to my attention.

Updated Solaris 2.6 VxFS for Veritas Oracle Database
Edition 2.0, VxFS version 3.3, and VxVm version
2.5.4, based on a report from Chris Kordish
<chris.kordish@East.Sun.COM>. Chris kindly provided
a test system.

Improved HP-UX ipc_s patch detection in Configure,
response in .../dialects/hpux/hpux11/ipc_s.h, and
documentation in 00FAQ, Kevin Vajk <kvajk@cup.hp.com>
helped test.

Added to Customize the option to suppress HASKERNIDCK
selection for specified dialects. Suppressed it
for /proc-based Linux lsof, and removed its test
and code from there. Tin Le <tin@netimages.com>
alerted me to the need for this update.

Ported to official Digital UNIX 5.0 release.

Changed DU lsof to use the knlist(3) function when
no kernel file has been specified with -k. This
change was suggested by Erich Wimmer
<Erich.Wimmer@digital.com>.

Updated
Configure for latest NetBSD (1.3I?) with
UVM support the default.

4.43 May 11, 1999
Corrected a typo in the Solaris gcc discussion in
00FAQ. Made changes to the Solaris 2.5[.1] private
tcp_s structure. Both changes were done in response
to reports from Igor Schein <igor@txc.com>, who
tested the Solaris 2.5 change.

Made more IPv6 adjustments to lsof for Tru64 UNIX
(Digital UNIX) 5.0, based on information obtained
from Compaq by Berkley Shands <berkley@cs.wustl.edu>.

Corrected HP-UX error message about HP-UX 11 q4 usage.

Amir Katz <amir@ndsoft.com> reported the correction.

Fixed a GlibC 2.1 conflict in /proc-based Linux lsof.

Fixed a man page typo reported by Vlad Harchev
<hvv@hippo.ru>.

Changed some Solaris 2.7 references to Solaris 7
in Configure and 00XPORTING.

Added a Solaris example to the echo statements that
are the install rule in the SunOS/Solaris Makefile.

Added a field to the file structure output
--
FILE-FLAG (file structure open flags, f_flag[s],
and process file flags, typically u_pofile)) --
enabled with +f[gG]. Its field output character
is 'G'.

Figured out another piece of the HP-UX 11 patched
ipc_s structure puzzle with the help of Keith Kalet
<KEITH_KALET@HP-USA-om41.om.hp.com>.

Fixed a PTX real vnode to real inode interpretation
bug.

Added link count to lsof output. Eric Dumazet
<dumazet@risgw.ris.fr> requested and helped test
it. The new +L option enables and filters it.
Its field output character is `k'.

Updated Configure script to recognize NetBSD 1.4.

Updated AFSConfig to handle default answers to
questions.

Incorporated patch from Jonathan Sergent <sergent@io.com>
that enables /proc-based Linux lsof to run on both
32 and 64 bit kernels.

Updated Configure script with a patch from David
O'Brien <obrien@NUXI.com> that recognizes FreeBSD 3.2.

4.44 June 24, 1999
Corrected use of nlink member of hsnode for SunOS
4.1.x

High Sierra File System files. John Dzubera
<zube@tlaloc.stat.colostate.edu> reported the
problem and helped test the fix. Also fixed a
SunOS segmentation fault bug. These fixes were
offered as a patch to 4.43.

Improved handling of /proc-based Linux UNIX PCB
address.

Fixed a NEXTSTEP and OPENSTEP bug that made repeat
option (-r) processing malfunction. This fix was
offered as a patch to 4.43.

Fixed Configure so it doesn't use -O in the Cflags
for the bundled HP-UX C compiler. Jim Ankenbrandt
<jankenbrandt@penton.com> reported the problem.

Corrected output ordering of parent PID and process
group ID when both -R and -g are specified.

Enhanced the pdev.c and pdvn.c library modules for
wider use. These dialect versions use the new
library modules: DEC OSF/1, Digital UNIX, and Tru64
UNIX; Pyramid DC/OSx and Reliant UNIX; SCO OSR and
UnixWare; and Sequent PTX.

Added basic clone device support to /dev/kmem-based
HP-UX lsof for
HP-UX 10.30 and higher.

Added raw socket support to /proc-based Linux lsof.

Changed NODE-ADDR column title to NODE-ID in
anticipation of using more general identification
information in the column.

Ported to UnixWare 7.1, using a test system kindly
provided by Matt Thurmaier <matt@compclass.com>
and Don Draper <dond@sco.com>.

Updated for NetBSD 1.4C VM changes, and a new
current and root working directory structure.

Made minor adjustment for latest Tru64 UNIX 5.0
Beta release.

4.45 July 30, 1999
Fixed quoting problem in DEC OSF/1, Digital Unix,

and Tru64 UNIX Makefile's install rule. The problem
was reported by Berkley Shands <berkley@cs.wustl.edu>.
Fixed bug in Tru64 UNIX 4 lsof that caused FDs to
be skipped. These fixes were offered in a patch
to 4.44.

Fixed a repeat-mode /proc-based Linux lsof bug,
reported by Sami Farin <sfarin@ratol.fi>. This
was offered as a patch to 4.44.

Picked lint, some reported by Sami Farin.

Corrected
a 00DCACHE documentation error in a sample
shell script. The problem was reported by Chad R.
Larson <chad@larsons.org>. Changed commented-out
entries in machine.h files so they require more
thought and work when the comments are removed,
based on a remark by Chad.

Compensated for the practice of Solaris 7 and above
to record the dev= value in /etc/mnttab in 32 bit
mode, even on 64 bit systems. This was offered as
a patch to 4.44.

Added a C library test for /proc-based Linux lsof,
so that the #include files can be adjusted for a
non-GlibC environment. The need for this was
reported by Andrew Hill <andrewh@tirin.openworld.co.uk>.
This was offered as a patch to 4.44.

Added support for Auspex LFS 1.8.1 and 1.9.2 to
SunOS 4.1.4 lsof. The support was requested by
Quentin Fennessy <quentin@dvorak.amd.com>, who
provided information and did testing.

Enabled IPv6 support code for NetBSD and OpenBSD,
conditional on Configure script tests. Wolfgang
Rupprecht
<wolfgang@wsrcc.com> supplied the NetBSD
code and tested it. The OpenBSD code I constructed
has been compiled but not tested.

Updated the identd Perl 5 script, based on a report
from Wendy Lin <af5@taiyang.cc.purdue.edu> that
the space in its response line in front of the user
name violates RFC 1413.

Added IPv6 support to /proc-based Linux lsof. Jonathan Sergent <sergent@ETLA.NET> and Andrew Thomas Sydelko <sydelko@ecn.purdue.edu> kindly provided a test system.

Updated man page description of AIX multiplexed files to indicate that they might be /dev/ptc or /dev/pts, depending on the AIX version. The correction was suggested by Onno van der Linden <onno@simplex.nl>.

Sylvain Robitaille <syl@alcor.concordia.ca> reports lsof passes his Y2K tests.

4.46 October 23, 1999

Corrected /proc-based Linux lsof to detect that an IPv6 address is a mapped IPv4 address. The problem was reported and analyzed by Arkadiusz Miskiewicz <misiek@misiek.eu.org>, who also tested the fix.

Added a libc5 library /dev/kmem-based Linux lsof circumvention, supplied by Jason Lingohr <lingman@lucid.net.au>.

Corrected a bug in -t (terse) AIX output, reported by Wendy Lin <af5@taiyang.cc.purdue.edu>. I introduced the bug at revision 4.43 when adding FILE_FLAG reporting. This was offered as a patch to 4.45.

Added a work-around for a problem in the OpenBSD 2.3 <sys/pipe.h> header file. Volker Borchert <bt@teknon.de> provided and tested it.

Improved description of cross-building lsof for a 64 bit Solaris 7 system on a 32 bit system with suggestions from Phillip Edwards <Philip.Edwards@sn.wpafb.af.mil>.

Fixed a gawk POSIX-mode pattern error in the Linux /dev/kmem-based Mksrc script, based on a tip from Ambrose C. Li <acli@mingpaoxpress.com>.

Fixed a bug in the Tru64 UNIX IPv6 handling, courtesy of a report from Casper Dik <casper@holland.sun.com>.

Enabled support for OpenBSD 2.6.

Enabled
support for BSDI BSD/OS 4.1, based on a
report from Jeffrey C Honig <jch@bsdi.com> that
only a Configure script change is necessary.

Enabled Configure script to use gcc for building
lsof for a 64 bit Solaris 7 and 8 kernels, if the
gcc version is 2.95 or above.

Improved -i option handling for systems with IPv6
support so that it will search for a host name in
both IPv4 and IPv6 families, when that is possible.
As a companion modification, changed -V processing
to report a single error when a multiple host name
match is requested. Casper Dik <casper@holland.Sun.COM>
helped test.

Fixed a DEC OSF/1, Digital UNIX, Tru64 UNIX repeat
mode bug, reported by Mayer Ilovitz <mayer@cooper.edu>.
Mayer helped test the fix. The fix was offered as a
patch to 4.45.

Changed Solaris socket file recognition scheme, so it
is (nearly) the same through Solaris 8, where the
previous clone device scheme no longer works.

With significant assistance from Casper Dik,
added
support for Solaris 8 Beta and Beta refresh. The
IPv6 support in Solaris 8 is still in some flux,
so there are temporary compensations for the
differences between Beta IPv6 support and Beta
refresh IPv6 support. Casper and I hope those
differences disappear by FCS.

Improved the delivery of information on Solaris
2.5.1, 2.6, 7, and 8 door files.

Fixed a repeat mode bug that surfaces when /etc/passwd
changes between cycles. The bug report and diagnostic
help were supplied by Igor Schein <igor@txc.com>.
The fix was offered as a patch to 4.45.

Added support for INRIA IPv6 to NetBSD. Jean-Luc
Richier <Jean-Luc.Richier@imag.fr> provided patches
and a test system on which to verify them.

Added support for AIX 4.3.3. Jeff W. Stewart <jws@anaconda.cc.purdue.edu> provided a test system.

Made adjustments for FreeBSD 4.0-current.

Improved reporting of information for AIX sockets that lack protocol control blocks.

4.47 November 29, 1999

Based on a query from Jean-Pierre Radley <jpr@jpr.com>, changed the lsof top-level Makefile to propagate CFGF to the library Makefile. (DEBUG was already being propagated.) Added osrgcc and scogcc Configure abbreviations (to use gcc) for Jean-Pierre.

In response to a query from Igor Schein <igor@txc.com>, improved the Configure script test for Solaris 7 and 8 that decides if the compiler can produce 64 bit executables.

Made an ugly hack, based on making a private rnode structure definition from q4 output, to compensate for HP-UX 10.20 and lower recent NFS3 patches. HP didn't supply an updated <nfs/rnode.h> with the patches. The problem was reported by Will Partain <partain@mekb2.sps.mot.com>. Elias Halldor Agustsson <elias@hi.is> helped identify the patches as PHNE_18173, PHNE_19426, PHNE_19937, and PHNE_20091, and provided a test system.

Switched BSDI test system from 2.1 and 3.1 to 4.0.1, courtesy of Terry Kennedy <terry@tmk.com>.

Added some more dev_t hacks for Alpha FreeBSD 4.0.

Added support for IPv6 on BSD 4.x. The support hasn't yet been tested, just compiled.

Added support for the mnt file system (mntfs or /etc/mnttab) on Solaris 8. Tested on Solaris 8 BETA-Refresh.

Made selection of optional fields (e.g., PPID with -FR) in a field output specification select the optional field, too, so that the option selector for the field (e.g., -R) isn't also required. This

change was made in response to an inquiry from John DuBois <spcecdt@armory.com>. This may require some revision to scripts that parse all field output; two scripts in the lsof distribution's scripts/ subdirectory had to be updated.

Corrected handling of Linux IPv4 addresses mapped in IPv6 addresses.

Tested under OpenBSD 2.6.

4.48 January 14, 2000

Modified -i argument processing of colon-separated IPv6 addresses to recognize an IPv4 address mapped in an IPv6 address and handle it as an IPv4 address. This was offered as a patch to 4.47.

Added a defined symbol (NOWARNBLKDEV) to control (inhibit) the issuance of a warning when no block devices are found. This was done anticipating its need in FreeBSD 4.x, but that dialect version no longer has any block devices, so HASBLKDEV was disabled for it instead. NOWARNBLKDEV was left in place for possible use in the future.

Enabled KAME IPv6 Configure support for FreeBSD when <netinet6/in6.h> is found.

Disabled use of gcc to compile lsof for 64 bit HP-UX 11.

Updated Configure to recognized FreeBSD 3.4.

Based on suggestions from Bernt Christandl <beb@MPA-Garching.MPG.DE> improved AFS configuration for AIX and Solaris, and updated AIX AFS 3.5 support. Johannes Tax <tax@bluedog.oit.unc.edu>, Hung T. Pham <hung_pham@unc.edu>, and Curt Freeland <curt@grumpy.cse.nd.edu> provided test systems.

Updated lsof's private rnode definition for AIX 4.3.3, since IBM still doesn't ship the <oncplus/nfs/rnode.h> header file and the rnode structure definition in <nfs/rnode.h> doesn't match what the kernel uses. This was offered as a patch to 4.47.

Weakened the test in the Linux /proc-based lsof of
the field count of data lines in /proc/net/{tcp,udp}.
It appears that recent 2.3.x Linux kernels have
added untitled fields to these files. The bug
report came from Gabor Liptak <gaborliptak@usa.net>.

Adjusted for a FreeBSD 4.0 change in the definition
of [_]KERNEL. David O'Brien <obrien@NUXI.com> reported
the problem and provided a test system.

Removed the HASPPID bracket from Fppid (the -R
option state variable) so that the field select
table will compile even when HASPPID is not defined.
This problem was introduced at revision 4.47 with
code that causes some field output characters to
set option states. The problem was reported by
David Bacon <bacon@birch.eecs.lehigh.edu>.

4.49 April 3, 2000
Made clearer in man page that "Lxx" FDs are AIX
loader table
references. Also updated the 00FAQ
discussion of the Stale Segment ID bug to include
AIX 4.3.x.

Modified support for NetBSD 1.4Q to include the
<sys/buf.h> header file to cope with an MFS change.

Added support for OpenBSD UVM virtual memory.

Added support for AIX systems with > 2GB of memory.
Chris Sylvain <csylvain@itg.ummc.umaryland.edu>
reported the problem and provided the solution.
Chris also supplied some minor code cleanup. This
was offered as a patch to 4.48.

Based on new information from Igor Schein <igor@txc.com>
made additional compensation in Configure script
for 64 bit Solaris 7 and 8 gcc.

Added some 00FAQ info on the effect ordering of
the +fg and -FG options has on output format.

Improved NetBSD IPv6 configuration, based on a
suggestion from Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>. Added code to
convert IPv4-mapped-in-IPv6 addresses to IPv4

addresses.

Updated the information in 00FAQ and the HP-UX 11 binary
directory README files on the HP-UX 11 ipis_s patch with new information supplied by Eric McWhorter <emcwhorter@xsis.xerox.com>.

Added documentation on changes to HASFSTYPE and HASNCACHE, and the new HASPRIVPRIPP.

Adjusted Configure for FreeBSD 5.0. Made additional, necessary changes to Configure and the BSDI sources to eliminate load errors.

Added KAME IPv6 support to FreeBSD at the request of Ollivier Robert <roberto@eurocontrol.fr>, who provided a test system.

Corrected the script that generates the CHECKSUMS files for binaries to correctly name the detached PGP certificate. The documentation bug was reported by Michael Hennecke <hennecke@rz.uni-karlsruhe.de>.

4.50 June 29, 2000

Added a NetBSD alpha test host, courtesy of Ray Phillips <r.phillips@mailbox.uq.edu.au>. An lsof 4.49 binary, built on Ray's 1.4.1 system was made available prior to the 3.50 release.

Upgraded the system map file tests in /dev/kmem-based Linux lsof, making the
use of DEBIAN_LINUX_LSOF unnecessary. Tested the changes on a system made available by Vincent Kujala <kujala@geog.ubc.ca> and Jim Mintha <jim@ic.uva.nl>.

Forced AIX to use the large-file-enabled versions of lstat (lstat64) and stat (stat64) if <sys/stat.h> contains stat64. This should allow lsof to stat() AIX files > 2GB even when the builder has not defined the "large file enabled programming environment." Configure tests <sys/stat.h> and puts -DHASSTAT64 in the Makefile's CFLAGS to make this happen. Fernando A.B. Whitaker <whitaker@cenapad.unicamp.br> reported the problem. This was offered as a patch to 4.48.

Enabled Configure script to handle OpenBSD 2.7.
Angelos D. Keromytis <angelos@dsl.cis.upenn.edu>
reported the availability of OpenBSD 2.7 and supplied
the Configure script patch.

Improved handling of DOOR and fattach()'d files in
Solaris.

Changed message about missing kernel symbol file
from "not yet determined" to "none found".

Updated
FreeBSD, NetBSD, NEXTSTEP, OpenBSD, and
OPENSTEP support to report "no PCB" and the values
of the SO_CANTSENDMORE and SO_CANTRCVMORE state
flags when a socket structure has no inpcb pointer.
This modification was made to AIX lsof at revision
4.46. Added an entry to 00FAQ about sockets that
have no inpcb pointer.

Upgraded support for FreeBSD 5.0-CURRENT. Ben
Smithurst <ben@scientia.demon.co.uk> supplied
patches and did testing. David O'Brien <obrien@NUXI.com>
supplied a test system. The update included dropping
the Fctty part of file descriptor file system
support, conditional on a Configure script test.
I propagated those changes to BSDI, NetBSD, and
OpenBSD in anticipation of their having the
modification in the future. David also arranged
with Michael Haro <mharo@area51.fremont.ca.us> for
a FreeBSD 3.4 test system.

In response to an lsof 3.72 bug report from Jim Mewes
<jim@corp.phone.com>, added more kernel address
filtering
to the lsof function, kread(), that reads
Solaris kernel data.

In response to a report from Marc Duponcheel
<marc@offline.be>, added tests to the /proc-based
Linux lsof to ignore file systems of types "autofs"
and "pipfs".

Based on a report and information supplied by Casper
Dik <casper@holland.Sun.COM>, updated the ncache_load()
function in lib/rnch.c with new code that deals
with a post Solaris 8 change in kernel name cache
(DNLC) handling. Casper tested the update, which

should be invisible to Solaris versions without
the new DNLC code.

Added support for Solaris VxFS QIO files, based on
a report from Kieran Broadfoot <kieran.broadfoot@gs.com>.
Kieran help test the support.

Added support for PTX 4.4.6 and 4.5[.1] with help
from the usual cast of good people at Sequent.

Added support for 64 bit file sizes and offsets on
BSDI, FreeBSD, NetBSD, and OpenBSD, based on a
report from Dan Nelson <dnelson@emsphone.com>.
Dan supplied a patch and
did FreeBSD testing.

Added Configure script recognition of NetBSD 1.5,
based on a report from Andrew Brown <atatat@atatdot.net>.
Thomas Klausner <wiz@danbala.ifoer.tuwien.ac.at> updated
the NetBSD port package to use a pre-release of this
addition.

At the last minute saw a notice via deja.com's
UseNet search service that FreeBSD 3.5 had been
released and lsof didn't grok it. Added recognition
of 3.5 to lsof's Configure script, but didn't have
the opportunity to test lsof on 3.5.

4.51 August 21, 2000
Added Configure script support for the upcoming
Solaris 9 release based on suggestions from Casper
Dik <Casper.Dik@holland.sun.com>.

Changed sample Perl scripts to assume that
/usr/local/bin/perl is Perl 5 and Perl 4 may be
found in /usr/local/bin/perl4.

Updated Configure to recognize FreeBSD 4.1 and made
a FreeBSD pre-release distribution available.

Bela Lubkin <belal@sco.COM> tested lsof on the
upcoming SCO OSR 5.0.6 release and reports that
lsof
appears to work properly.

Updated the AIX compiler test in Configure to
recognize its version 5.

Updated AIX 4.3.3 support with automatic recognition
of the proper rnode structure, based on machine
bit width. Also added code to detect when processing
the -X option that lsof has been compiled with the
"other" AIX 4.3.3 user structure and to apply
compensations. When a compensation method works,
it's applied during subsequent -X processing; when
none works, further -X processing is disabled.

Added Tru64 UNIX 5.1 support. Updated Tru64 UNIX
library text file support to recognize new kernel
support for AdvFS library files. Berkley Shands
<berkley@cs.wustl.edu> and Klaus Saggerer USG
[saggerer@zk3.dec.com> helped put me in contact
with Chang Song <song@zk3.dec.com>, the developer
of 5.1's new kernel name cache and he helped me
develop new code in lsof to access it.

Corrected reporting of PTX fattach()'d address.

Changed Configure and
dlsof.h for NetBSD and OpenBSD
to use /usr/include/uvm header files when available.
Andrew Brown <atatat@atatdot.net>, Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>, and Wolfgang
Rupprecht <wolfgang@wsrcc.com> pointed out the need
to do this for NetBSD. Andrew provided access to
a NetBSD 1.5 system for verifying the changes.

Installed snprintf() support, including a private
version in the lsof library for those UNIX dialects
without the function. Changed all sources to use
it instead of sprintf() and strcpy().

Fixed a memory leak in the readvfs() functions of
BSDI, DEC/OSF1, Digital UNIX, FreeBSD, NetBSD,
OpenBSD, and Tru64 UNIX.

Tested on Linux 2.4.

Modified the Pyramid MkKernOpts script to compensate
for `uname -s` configuration alternatives. Robert
Dahlem <Robert.Dahlem@ffm2.siemens.de> supplied
the modification.

Obtained access to an FCS Solaris 8 64 bit system
and built lsof on it, using Sun Workshop C 5.0 and
gcc 2.96 20000814

(experimental). Both compilers
produce a working lsof.

4.52 November 8, 2000
Completed work on an HP-UX 11.11 port that uses a
pstat(2) interface provided by HP. To distinguish
it from its predecessors for HP-UX, this lsof
version is called PSTAT-based and the predecessor
versions are now called /dev/kmem-based. I am
indebted to the far-sightedness and support of
these good people at HP for making PSTAT-based lsof
possible: Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada. The PSTAT-based
sources are in lsof_4.52/dialects/hpux/pstat, the
/dev/kmem-based ones in lsof_4.52/dialects/hpux/kmem.

Ported to IBM Monterey for Merced|Itanium, aka AIX
5L. It configures via the Configure script's "aix"
abbreviation and has been tested on AIX 5L Beta 3.
Jay Beck, Steve Dibbell, Loc Le, Nasser Momtaheni,
and Malcom Zung of IBM provided generous support.
Since AIX 5L is still in Beta testing, this port
can't be considered complete.

Added
Configure support for OpenBSD 2.8. David
Mazieres <dm@cs.nyu.edu> provided a test system.

Based on a report from Marc Christensen
<marc@mecworks.com> added sockfs to the mount scan
exemption list for /proc-based Linux lsof.

Added large file, CDFS, and DOSFS for UnixWare 7.x.
Added UnixWare device memory mapping support. All
UnixWare changes were supplied by Eric Dumazet
<edumazet@cosmosbay.com> Eric also supplied some
miscellaneous bug fixes.

Deferred name cache loading until printname() needs
to use the name cache.

Terminated Pyramid, SunOS 4.1.x, and Ultrix support,
because test systems are no longer available.
Final Pyramid and Ultrix source code distributions
for lsof revision 4.51 may be found on lsof.itap.purdue.edu
in pub/tools/unix/lsof/OLD/src. The no longer
supported SunOS 4.1.x source code is still distributed

with the Solaris source code.

Added code to set Solaris node address to real vnode address, when applicable.

John Speno <speno@lopan.isc-net.upenn.edu> provided information that enabled me to update the Tru64 AdvFS (MSFS) node definition for AdvFS version 5.

Added Tru64 5.x CFS support with help from Kris Chandrasekhar <Kris.Chandrasekhar@compaq.com>, Diane Lebel <lebel@zk3.dec.com>, and John Speno. The support only provides information about cached file attributes.

Installed a Configure patch for HP-UX 11 supplied by Kenneth Stailey <kstailey@disclosure.com> that adds another command to q4 input.

Tested on FreeBSD 4.2.

Will Day <willday@rom.oit.gatech.edu> and Frank Winkler <frank.winkler@germany.sun.com> graciously supplied Solaris 8 binaries.

Added Solaris 9 text file support, supplied by Casper Dik <Casper.Dik@holland.sun.com>.

4.53 December 6, 2000

Added the AIX 5L j2_lock.h to the distribution with a Configure script step to use it when it's missing from /usr/include/j2.

Removed SunOS 4.1.x support.

Removed Linux 2.0.x /dev/kmem support.

Fixed VBLK and VCHR special device file reporting to handle /dev information more accurately.

Added a Apple Darwin / Mac OS X 1.2 port, provided by Allan Nathanson <ajn@apple.com>. Allan also arranged for a test system so I can maintain this port. An additional test system was provided by Dale Talcott.

Dropped claims of support for all UnixWare versions
except 7.1.0, since that is the only version on
which I can test lsof. Even though lsof 4.53 is
deprecated for UnixWare 2.1.3, installed a patch
for it with testing done by A. Channing Clark
<clark.channing@heb.com>.

Dropped claims of support for all SCO OpenServer
versions except 5.0.5, since that is the only
version on which I can test lsof.

4.54 January 19, 2001
Added compensation for a change that made the
FreeBSD mount structure invisible. I can only test
back to 3.2 and the compensation works there, so
it's been #ifdef'd for 3.2 and above. David O'Brien
<obrien@FreeBSD.org>
provided the necessary clue.

Based on a report from Valdis Kletnieks
<Valdis.Kletnieks@vt.edu>, changed all IPv6 support
to report a TYPE of IPv6 for sockets with IPv4
addresses mapped in IPv6 addresses. The previous
lsof behavior was to report their TYPE as IPv4.

Restored the Linux GlibC test to Configure, removed
at revision 4.53, based on a report from John Dzubera
<zube@cs.colostate.edu>, that RedHat Linux 6.0 still
needs the test.

Made setting of link count for Solaris more selective.

Limited Readlink() recursion to MAXSYMLINKS. The bug
was reported by Jan Dvorak <johnydog@go.cz>.

Dropped the *claim* that lsof runs on Solaris 2.5.1.
It may well do so, but I no longer have access to a
test system.

Fixed an #endif comment typo, reported by Igor Schein.

Fixed a typo in a cast for a Tru64 UNIX 5.1 function
and updated Configure for Tru64 UNIX 5.0 and 5.1 with
information from Jesse Perry <jesse.perry@compaq.com>.

Corrected non-fatal
typos in the AdvFS support in
dnode.c for Tru64 UNIX.

Added msdos file system support for NetBSD and OpenBSD.
Andrew Brown <atatat@atatdot.net> requested and helped
test it.

4.55 February 15, 2001
Based on a report from Bernd Eckenfels <ecki@lina.inka.de>
added support in lsof for files in /proc/<PID>/maps
that have been deleted.

Changed PGRP output title to PGID, conforming to
the most common current abbreviation for Process
Group ID (PGID). While some systems continue to
use *pgrp for internal kernel variable names, most
systems that support the display of PGID via ps(1)
now title it PGID. The lsof -g and -Fg options
operations are unchanged in function; only titles
and descriptions have changed. Also changed internal
variable names from *PGRP and *pgrp to *PGID and
*pgid where possible.

Dropped the *claim* that lsof runs on HP-UX 9.x.
It may well do so, but I no longer have access to
a test system.

In response to a suggestion from
Jeff Howie
<jeff.howie@federated.ca> added support for command
name selection by regular expression. A new form
of the -c option value is use to identify and
specify a regular expression.

Restore the *claim* that lsof works on UnixWare
7.0, since I re-acquired a test system.

4.56 May 3, 2001
Corrected some problems Amir Katz <Amir_Katz@bmc.com>
found with Insure++, one in lib/dvch.c, the rest
in Solaris sources. Amir's report also helped me
find an error in an snpf() call that caused (the
unsupported) Solaris 2.5.1 lsof to crash. Wally
Winzer, Jr. <wally.winzer@ChampUSA.COM> helped test.

Added support for UnixWare 7.1.1 and above in-kernel
UNIX sockets. John Hughes <john@Calva.COM> kindly
provided code and access to a test system. John
also provided a test system and advice for adding
UnixWare 7.1.1 NonStop Cluster and CFS support.

More help with that effort came from Kurt Gollhardt (SCO), Barbara Howe (SCO), Bela Lubkin (SCO), and Dewan
Rashid <Dewan.Rashid@ir.com>.

Archived a set of compilation hints (patches) from Bill Melvin <Bill.Melvin@esc.edu> that make it possible to compile the old, unsupported lsof 3.08 sources on UnixWare 1.x without NFS or CDFS support.

Installed support supplied by Allan Nathanson <ajn@apple.com> for the Darwin "Gold Master" release, Mac OS X 10.0 (aka Darwin 1.3 in its public source version). Added Allan's CVS repository suggestions to the script that gets additional header files from an open source repository.

Tested an HP-UX 11.11 kernel patch from Sailu Yallapragada that enables reporting of TCP/IP information for telnetd processes that use the telnet multiplexor. I don't yet know the kernel patch ID.

Made the Solaris inclusion of <inet/mi.h> conditional on the Solaris version. (It's apparently not needed at 2.6 and above.) Bill Watson <bill.watson@uk.sun.com> brought this to my attention.

Added alternate Linux 2.4.x lock extent test, supplied
by Jim Mintha <jim@ic.uva.nl>.

Rearranged the lines and pre-processor tests in regex.h, lib/regex.c, and lib/snpf.c so that unifdef can be used to eliminate copyright and GPL statements when the files aren't being used for a particular dialect. (USE_LIB_* definitions in a dialect's machine.h header file determine if one or more of those three files are to be used.)

Added preliminary support for Solaris 8 with VxFS 3.4. This support will be refined as I get information from Veritas about how they will distribute the kernel header files lsof needs. Those header files were omitted from the standard VxFS 3.4 distribution. Technical assistance and testing were provided by Calle Dybedahl <cdy@algonet.se>, Gary Millen <gary.millen@veritas.com>, Rainer Orth

<ro@TechFak.Uni-Bielefeld.DE>, Peter C. Vernam
<pvernam@draper.com>, and Donna Yobs
<Donna.Yobs@veritas.com>

Tested on FreeBSD 4.3-STABLE.

Dropped the *claim* that lsof works on UNIX
dialects
where I no longer have test systems: BSDI 2.1,
3.[01] and 4.0; DEC OSF/1, Digital UNIX and True
64 UNIX 2.0 and 3.2; FreeBSD 2.1.[67], 2.2[.x],
3.[012345] and 4.[01]; HP-UX 10.20; NetBSD 1.[234];
SCO OpenServer 5.0.5; and SCO UnixWare 7.0

Tested on Solaris 9 BETA, s81_36.

4.57 July 19, 2001
Help (-h) and version (-v) output now have URLs
for the newly created and timeliest lsof FAQ
(00FAQ in the lsof distribution) at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

and the man page for the current lsof distribution
at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

Based on a report from Steve Laubscher
<slaubs@woodward.com>, modified dlsof.h for PTX
4.6[.1] to avoid a temporary dnlc_t definition
needed at PTX 4.5.1.

Corrected test for old Linux kernels in Configure.
Henri Karrenbeld <ishtar@cal044202.student.utwente.nl>
brought the error to my attention. Limited Linux
claims to 2.1.72 and above in the documentation.

Improved
HP-UX 11 Configure stanza and stream socket
handling.

Constructed a work-around for the HP-UX 11 optional
OnlineJFS package. The work-around sadly requires
lsof to have a private version of the vx_inode
structure, since the OnlineJFS package doesn't
update <sys/fs/vx_inode.h>. Troyan Krastev
<Troyan.Krastev@ricoh-usa.com> brought the bug to

my attention and Michael Bracewell
<michael@ra.TSS.PeachNet.EDU> provided a test system
where I developed the work-around.

Added locale support to lsof's isprint() test,
based on a suggestion from Dan Mercer <damercer@mmm.com>.
Lsof will use setlocale(), when that function and
its supporting <locale.h> header file are available.

Added OpenBSD 2.9 support.

Based on a report from Aaron Rhodes <arhodes@psionic.com>
and with testing help from Aaron, made the lsof
4.56 revision compile and work on OpenBSD 2.6.
While that OpenBSD version is no longer supported,
Aaron's report exposed a Configure
script bug
affecting OpenBSD versions lsof does support.

Updated for FreeBSD 5.0-CURRENT. Szilveszter Adam
<sziszi@petra.hos.u-szeged.hu> help test. The lsof
FreeBSD ports packager, David O'Brien <obrien@FreeBSD.org>,
assisted.

Tested on AIX 5.1. Loc Le and Nasser Momtaheni of
IBM provided test systems.

4.58 September 13, 2001
Added options to safestrprt() and safestrprtn() to
surround the string with "" and to suppress the
printing of an ending '\n'. Use of these functions
in device cache file error message reporting answers
a suggestion for better error reporting from John
Jackson <jrj@purdue.edu>.

Fixed a Solaris 2.6 and above problem related to
searching for "large" (O_LARGEFILE) files by name;
lsof was using the wrong version of [l]stat(2).
The bug was reported by Daniel Trinkle
<trinkle@cs.purdue.edu>.

Added AIX 4.1.4 and above XTI socket support.

Added OSR Xenix Shared Data and Semaphore file type
support with modifications
supplied by Bela Lubkin.

Updated OPENSTEP support with modifications from Carl

E. Lindberg <lindberg@clindberg.org>. The changes
enable the correct reporting of executable and
library open files ("txt" type).

Limited claims of OpenServer support to the versions
where I currently test, 5.0.4 and 5.0.6. (Lsof
probably works on 5.0.5.)

Enabled processing of -C option for PSTAT-based HP-UX
lsof.

Enabled and tested on FreeBSD 4.4.

Corrected a file system test example in 00QUICKSTART,
based on a report from Jun Biao WANG <wangjunb@cn.ibm.com>.

Made available for re-distribution a user-contributed
port of lsof 4.51 to Reliant UNIX 5.45. Thomas
Mauterer <Thomas.Mauterer@philosys.de> contributed
the port.

4.59 October 20, 2001
With the closing of the Sequent Synergy Links Lab
by IBM, terminated lsof support for PTX. The last
tested PTX lsof revision, 4.58, is available on
lsof.itap.purdue.edu in .../lsof/OLD/src.

Adjusted for FreeBSD 5.0-CURRENT
NFS header file
changes, based on a report from Jos Backus
<josb@cncdsl.com>.

Corrected a bug in the way Linux lsof identifies
the owner of a process. Lionel Cons <lionel.cons@cern.ch>
reported the problem and tested the fix. Added
code to avoid stat(2) calls on regular Linux files
whenever possible. Lionel reported the need to do
this (AFS files) and tested the new code.

Added new output field for raw device number in
hex. The field is identified with 'r'. This field
is NOT selected when -F or -F0 is specified so that
its appearance won't disturb existing scripts that
process field output.

Added support for OpenUNIX 8. A test system was
provided by Larry Rosenman <ler@lerctr.org>.
Matthew Thurmaier <matt@compclass.com> and many

people from Caldera provided technical assistance.

Added an additional UVM test to the NetBSD Configure stanza. Andrew Brown <atatat@atatdot.net> supplied the test; it recognizes NetBSD 1.5Y UVM changes to the vnode structure recently committed by Chuck Silvers.

Applied Configure and get-xnu-headers.sh script changes suppled by Allan Nathanson <ajn@apple.com> for Darwin 1.4.

Added for Bela Lubkin <belal@mammoth.ca.caldera.com> OSR-specific environment variables to supply values to the Configure script. The variables are described in 00XCONFIG.

Added an IP version selector to the -i option parameters.

4.60 November 9, 2001

Added special handling to and corrected bugs in the matching of IPv4 in IPv6 addresses to -i6:<...> selectors.

Made 00FAQ corrections and updates, based on discussions with Igor Schein <igor@txc.com>.

Modified Configure script to detect a 64 bit capable gcc compiler and permit it to be used to build 64 bit (PA-RISC 2) lsof for HP-UX 11.00. Tested with HP's gcc package, which Rich Rauenzahn of HP kindly installed on a test system at HP. Stefan Marquardt <stefan.marquardt@hagebau.de> helped test.

Made lsof's method of killing its child process more robust, based on a suggestion from Bela Lubkin <belal@caldera.com>.

Modified all dialect Makefile segments to accept select -v #define's from the environment -- a builder's comment, host, logname, system information and user name. This was done for Bela Lubkin, so he can "tune" the -v output when he packages lsof in the upcoming Caldera OSR 5.0.7 release.

Changed Perl scripts in scripts/ to put the lsof
path consistently in $LSOF. Also added a fix from
Bela Lubkin to scripts/big_brother.perl5 that allows
it to tolerate SCO OSR "ago" clauses in open UDP
file information. Strengthened emphasis in
scripts/00README that the scripts are examples that
shouldn't be expected to run on all UNIX dialects
without modification.

At Bela Lubkin's suggestion changed the device
cache file format examples in 00DCACHE and 00FAQ
to avoid "%U%". That's an SCCS escape sequence.

Added support for OpenBSD 3.0.

Added +DAportable
to CFLAGS for 32 bit HP-UX 11.
Amir Katz <Amir_Katz@bmc.com> suggested the addition.

4.61 January 22, 2002
Updated field output example Perl scripts in the
scripts/ subdirectory to discover the lsof path,
starting at .. and proceeding through the PATH
environment variable's directories.

Added minor OSR Configure script fixes, provided
by Bela Lubkin <belal@caldera.com>.

In response to a report from Joshua Wright
<Joshua.Wright@jwu.edu> modified NetBSD and OpenBSD
Configure stanzas and sources so that lsof can be
built when there is no system source tree (e.g.,
/usr/src/sys).

In response to a report from Peter Valchev
<pvalchev@openbsd.org> improved the UVM test in
the OpenBSD Configure stanza.

Updated Configure script to recognize FreeBSD 4.5.
Updated for FreeBSD 5.0 procfs and pseudofs changes.

Updated HP-UX stanza to see if the compiler named
in the LSOF_CC environment variable is the bundled
compiler. If it is, "-O" is omitted
from the
compiler flags.

Updated Digital UNIX 4.x and Tru64 UNIX error message

related to kernel name list failures. Added an FAQ
section about how a kloadsrv daemon failure can cause
knlist(3) to fail. The condition was reported by
Douglas B. Jones <douglas@gpc.peachnet.edu>

Based on a report from Mark W. Eichin <eichin@thok.org>
made Linux lsof capable of handling and reporting
file sizes greater than 32 bits.

Tested on Solaris 9 BETA-Refresh.

Corrected a bug in the matching of IPv4 addresses,
mapped in IPv6 addresses, to an IPv4 parameter to
an -i option.

Ported to 64 bit Power AIX 5.1 kernel with advice
from David Clissold <cliss@austin.ibm.com> and Marc
Stephenson <marc@austin.ibm.com>, and on a test
system provided by Loc Le <lple@us.ibm.com>.

4.62 March 7, 2002
Updated 00README to reflect the usefulness of gcc
for building AIX lsof. Documented a report from
Brian L. Gentry <BGentry@nationsrent.com> of success
on AIX 4.3.3.
I documented my success on 32 bit
Power AIX 5.1 and my lack of success on ia64 AIX
5.1 and 64 bit Power AIX 5.1.

Improved UnixWare >=7.1.1 reporting of UNIX socket
NAME field information for NonStop Cluster systems
with a patch provided by John Hughes <john@Calva.COM>.
Offered John's improvement as a patch to lsof 4.61.

Corrected bugs in handling of open files on block
devices by OSR lsof. The bugs were reported by
Bela Lubkin <filbo@deepthought.armory.com>.

Fixed bug in writing >32 bit device numbers for
block devices to the device cache file.

Added support for reporting block special nodes
not in /dev (or /devices). That required "like
device special" be changed to "like block special"
and "like character special". (00FAQ was updated.)

Based on a report from Peter Valchev <pvalchev@openbsd.org>
improved the definition of the source for NetBSD

and OpenBSD kernel symbols (the nlist() source
file). NetBSD now defaults to getbootfile(3) if
it
is available, /netbsd otherwise. OpenBSD now
defaults to /dev/ksyms if it is available, /bsd
otherwise.

Made possible compilation under BSD/OS (BSDI) 5.0
with changes to Configure, dialects/bsdi/dlsof,
dialects/bsdi/dproc.c and lib/rnmh.c. The changes
were suggested by Steven Hinkle <hinkle@bsdi.com>.
Note that these changes do not substantiate a claim
that lsof works on BSDI 5.0, because I haven't
tested it there.

Updated OpenUNIX private <sys/fs/memfs_mnode.h>,
based on a report from Larry Rosenman <ler@lerctr.org>
that it had been updated by Caldera patch OU800PK3.
Unfortunately the patch only corrects some of the
problems with the header file, so it is still
necessary to distribute a private patched version
of it with the lsof sources.

Applied a man page correction reported by Frederic
Delanoy <max_ok@yahoo.com>.

Corrected cast bugs related to using the HP-UX
bundled C compiler on HP-UX 11.11.

4.63 April 23, 2002
Added HPUX_BOOTFILE
environment variable for use
by the Configure script in determining HP-UX kernel
configuration information -- e.g., the state of
the ipis_s structure in the HP-UX 11 kernel. The
change was suggested by Marc Bejarano <beej@alum.mit.edu>.
Marc also suggested some changes to the HP-UX
section in 00FAQ that discusses Configure's use of
q4 for HP-UX 11.

Fixed a bug in the Solaris lsof file system matching
code. It was not reporting that VCHR files in
/devices were in / when /devices was in /, too.

Corrected bugs in device number, file size, file
offset, and raw device number field output generation.

Added recognition of OpenBSD 3.1 to the Configure

script with a suggestion from Peter Valchev
<pvalchev@sightly.net>. Note that this change does
not constitute a claim that lsof works on OpenBSD
3.1, because I haven't tested it there.

Built an automated test suite. (See 00TEST and
the tests/ sub-directory of the lsof main directory).
Bela Lubkin
requested it. Dale Talcott, John
Hughes, and Larry Rosenman helped me validate it
on their systems.

During the development of the test suite I discovered
the following lsof bugs or missing features, and
corrected or supplied them.

* Corrected the reporting of locks for:
  o Digital UNIX 4.0d and Tru64 Unix 5.[01];
  o HP-UX 10.30 and 11.00;
  o OpenUNIX 8;
  o UnixWare 7.1.1.

* Enabled HP-UX 10.30 and 11.00 to report open NFS
  file link counts.

* Corrected the reporting of UNIX domain socket
  names for Apple Darwin, FreeBSD 4.5 and above,
  NetBSD 1.4.1 and above, and for OpenBSD 3.0 and
  above.

* Enabled HP-UX 11.11 to stat(2) large files.

* Fixed handling of combination 32 and 64 bit
  device numbers in AIX 64 bit architectures.

Updated the AIX 4.3.3 NFS rnode recognition code,
first installed at revision 4.51. It looks like
some IBM update has restored a single rnode structure
independent of the machine bit width.

Updated
the NetBSD and OpenBSD sources so NetBSD
can process DTYPE_PIPE files, as OpenBSD was already
able to do.

Updated Darwin get-xnu-headers.sh script to reflect
information about a recent reorganization of the
Darwin CVS hierarchy, supplied by Allan Nathanson

<ajn@apple.com>.

Added defense against the standard I/O descriptor
attack.

4.64 June 26, 2002
Corrected some FreeBSD pre-processor directives.
David O'Brien <obrien@NUXI.com> pointed them out.

Updated lsof's main() function to: 1) close all
open file descriptors above 2 before starting; and
2) to set a non-interfering umask. Moved GET_MAX_FD
test from misc.c to proto.h, so that main() could
use it. Added multiple-include protection to
proto.h.

Moved FAQ's test suite Q's & A's to a more appropriate
section. Added a Q&A on HASSECURITY option and
its affect on searching for open files. (That was
already in the man page.)

Updated hpux/kmem/dnode.c for HP-UX < 11 compilation
with information
from John Dzubera <Zube@CS.ColoState.EDU>.
While lsof doesn't support HP-UX < 11 any more, I
try to avoid disabling it there when possible, and
a locking fix for HP-UX >= 11 in lsof 4.63
inadvertently disabled compilation of lsof for
HP-UX < 11. Fixed long-standing bug in HP-UX 10.20
lock reporting.

Removed language from the test suite programs that
requires an ANSI-C compiler. This allowed the test
suite to be validated with cc and gcc on the un-
supported HP-UX 10.20.

At the suggestion of Manuel Bouyer <bouyer@antioche.eu.org>
switched NetBSD and OpenBSD lsof from using nlist()
to using kvm_nlist(). Made the same change for
BSDI, Darwin, and FreeBSD.

Validated test suite on OPENSTEP 4.2.

In response to a suggestion from Jeff Stoner
<jstoner@blackboard.com> enhanced support for the
FD list of the -d option to allow it to be either
an exclusion or inclusion list, using the '^' prefix
to denote exclusions.

Made adjustments for
FreeBSD 4.6 and 5.0-CURRENT.
Fixed a FreeBSD /etc/make.conf CFLAGS extraction
bug, reported by Kris Kennaway <kris@obsecurity.org>,
and new a bug in the fix, reported by Eric Cronin
<ecronin@eecs.umich.edu>

Added nullfs support for FreeBSD, NetBSD, and OpenBSD
at the request of Andrew Brown <atatat@atatdot.net>.

Modified all readmnt() functions to ignore mounted-on
directory names that don't begin with '/'.

Tested on NetBSD 1.6A and OpenBSD 3.1.

Upgraded to Solaris 9 FCS with two changes to the
BETA-Refresh support: 1) an adjustment to dnode.c
for a change in the so_so (sonode) structure; and
2) addition of Solaris 9 FCS specific DNLC code.
David Comay <David.Comay@Eng.Sun.COM> sent me the
dnode.c change and Casper Dik <Casper.Dik@sun.com>
helped with the new DNLC support code.

Applied OpenUNIX changes that permit lsof to compile
and run on the upcoming 8.0.1 release. The changes
were supplied by Robert Lipe <robertl@caldera.com>.
Larry Rosenman
<ler@lerctr.org> provided a test
system.

Added Solaris fd file system support.

4.65 October 10, 2002
Adjusted for change in FreeBSD 5.0-CURRENT inode
structure, reported by David O'Brien <obrien@NUXI.com>.
Adjusted for changes in FreeBSD 5.0-CURRENT <sys/vnode.h>.
One change was reported by Anders Nordby
<anders@FreeBSD.org>. Adjusted for FreeBSD 5.0-CURRENT
on sparc64 architecture.

Enhanced the error reporting of Solaris lsof when
it detects a kvm_open() failure, and added a 00FAQ
entry on the cause, based on a report from Peter
J. Bertoncini <pjb@anl.gov>.

Enabled compiling of lsof for NetBSD 1.5 with the
NULL file system, using a patch from Andrew Brown

<atatat@atatdot.net>.

Removed a hack in the LTbigf test program that was once needed when it was compiled on Solaris 9 BETA-Refresh with gcc. The hack isn't needed on Solaris 9 FCS. Janet Hempstead <jan@library.carleton.ca> brought the need for this change to my attention.

Applied a patch, supplied by Andrew Brown <atatat@atatdot.net>, that updates lsof for NetBSD version 1.6F. Corrected handling of the NetBSD nullfs.

Updated to BSDI BSD/OS 4.3 on a test system kindly provided by Terry Kennedy <terry@tmk.com>.

Updated to FreeBSD 4.7.

Updated to Apple Darwin 1.5, 5.x and 6.x with patches supplied by Allan Nathanson <ajn@apple.com>. The patches include IPv6 support.

Updated Configure to use the -bnolibpath loader option when building lsof on a PowerPC, running AIX 5 or greater. Valdis Kletnieks <Valdis.Kletnieks@vt.edu> informed me this was needed. Lsof for AIX 5.x was initially developed on the IA64, where -bnolibpath can't be used and I didn't think to restore it to PowerPC loads when AIX 5.x became available for that architecture.

Updated to UnixWare 7.1.3 on a test system provided by Larry Rosenman <ler@lerctr.org>. Removed claims that lsof works on OpenUNIX 8.0.1, because UnixWare 7.1.3 is the release name of OpenUNIX 8.0.1.

Based on a comment that his e-mail address was wrong in the lsof distribution from Kenneth Stailey <kstailey@disclosure.com>, removed all e-mail addresses from lsof documentation files except this one, 00DIST. The addresses in 00DIST are used to send revision release notices to those who contributed to a revision, but the addresses in this file for previous revisions and in other documentation files sometimes grow stale and are never validated.

4.66 December 22, 2002
Acquired Solaris 7 and 8 test systems, courtesy of
John Dzubera <Zube@CS.ColoState.EDU>. Updated
00TEST and tests/TestDB accordingly.

Clarified FreeBSD 5.0 architecture claims at the
suggestion of David O'Brien <obrien@NUXI.com>.
Also implemented David's suggestion to change
Intel to x86.

Installed changes to DNLC handling in OSR lsof in
preparation for handling changes in the OSR 5.0.7
DNLC cache. Information about the changes and
patches to handle them
were supplied by Bela Lubkin
<filbo@deepthought.armory.com>.

Upgraded True 64 UNIX support to the 5.1B release
on a test system provided by Berkley Shands
<berkley@cse.wustl.edu> Had to used relaxed ANSI
compilation because of an error in a system header
file and other lsof source usages.

Implemented the HASNOSOCKSECURITY compile-time
option. When it and HASSECURITY are defined, lsof
will be built to list only the user's open files,
but will also list anyone else's open socket files,
provided the "-i" option selects their listing.
Updated the Customize script to ask about setting
HASNOSOCKSECURITY. Left it undefined in all dialect
machine.h header files. This change was requested
by Kenneth Stailey <kstailey@speakeasy.net> for
use with ntop.

Added support for OpenBSD 3.2 and its kernel trace
file.

Improved lsof help (-h) and version (-v) information
reporting.

Fixed a FreeBSD 4.7 and above off-by-two UNIX domain
socket path termination
bug, reported by Ken Stailey
<kstailey@speakeasy.net>

4.67 March 27, 2003
Began the transition of the lsof ftp server host
name from vic.cc.purdue.edu to lsof.itap.purdue.edu.

That reflects Purdue organizational changes. This
first step makes the new name an alias to the old
one. The old name, vic.cc.purdue.edu, will remain
usable for an extended period.

Corrected a revision number reference in section
17.17 of 00FAQ on the appearance of Solaris negative
DNLC caching handing.

Updated 00FAQ discussion of compilers for 64 bit
Solaris.

Validated test suite for 64 bit Solaris 8 and gcc.

At the request of Alek O. Komarnitsky <alek@komar.org>
added the "+c <width>" option to enable optional
changing of the COMMAND column output maximum width
from the default to <width>. The default maximum
width remains CMDL, as defined in lsof.h.

Fixed three AIX kernel bit size detection bugs,
one in the AIX Configure script stanza, the second
and third
in the AIX dproc.c get_kernel_access()
function. The bugs were reported by Pierre-Yves
Fontaniere <pyf@cc.in2p3.fr>, who tested the fixes.

Added kernel event queue file support for FreeBSD,
NetBSD and OpenBSD. Andrew Brown <atatat@atatdot.net>
supplied the code.

Updated to AIX 5.2 on a test system provided by
Dale Talcott <dtalcott@purdue.edu>. Had to build
work-arounds for two missing AIX 5.2 header files,
<j2/j2_snapshot> and <proc/proc_public.h>. Corrected
an off-by-one UNIX socket addressing bug. Taught
AIX lsof to handle both jfs and jfs2 files at the
same time. Adjusted for an IBM mistake in the
sizing of the fdsinfo structure in <procinfo.h>
Toshiya Nakamura <TOSHIYAN@jp.ibm.com> helped test,

Updated to FreeBSD 4.8. Corrected another bug in
FreeBSD UNIX domain socket name handling.

Corrected gcc build problems on HP-UX 11i, reported
by Yuliy Minchev <yuliy@mobiltel.bg>.

Updated BSDI BSD/OS support to 4.3.1.

Augmented a lock
ID test on NetBSD to check if the
ID is an LWP pointer.

4.68 June 18, 2003
Enhanced Configure script's cleanup operations.

Added support for OpenBSD 3.3, based on a report
from Peter Valchev <pvalchev@sightly.net>.

Improved the description of the detached PGP
signature certificate file in the main lsof README
file, based on a suggestion from Diana Stockdale
<diana@mpl.ucsd.edu>.

Installed a work-around for FreeBSD 5.0-CURRENT on
Alpha to avoid a compiler register use complaint.

Corrected a 'c' option error message. Gnele
<blaadeleng@yahoo.com> reported the problem.

Upgraded EXT2FS and UFS support for NetBSD and
OpenBSD to handle new inode information, and the
fast UFS1 and UFS2 file systems.

With the help of Andrew Brown <atatat@atatdot.net>
determined the NetBSD snapshot (1.6F) at which
<sys/mount.h> could be included under _KERNEL, thus
eliminating the lsof netexport.h hack. The same
change applies to OpenBSD versions 3.3 and above.

Applied
a patch from Armin Gruner <ag@muc.de> that
corrects the use of the HASPROCFS definition in the
FreeBSD dialect sources.

Corrected spelling errors in 00FAQ and in the
generated 00.README.FIRST_<version> file of the
distribution archive. John Jackson <jrj@purdue.edu>
and Ray Phillips <r.phillips@jkmrc.uq.edu.au>
spotted and reported the errors.

Corrected a spelling error in a comment and incorrect
use of an alarm function in the LTsock test program.

At the suggestion of Stuart Anderson <sba@srl.caltech.edu>
added preliminary (and incomplete) SAM-FS file system

support to Solaris lsof. Completion awaits availability
of SAM-FS internals.

Fixed a Solaris device name printing bug, reported by
Ric Anderson <ric@tick.Telcom.Arizona.EDU>, only
visible when HASDCACHE is not defined. Ric helped
test the fix.

Fixed an AIX kernel bit size handling bug related
to the NFS node (rnode) structure.

Corrected a print_kptr() function call error
in the AIX
AFS code, reported by David Steiner
<david.r.steiner@Dartmouth.EDU>. Upon further reflection
and because I no longer have appropriate AIX AFS test
systems, disabled AIX AFS support in the Configure script
for AIX versions above 4.3.3.0 or AIX AFS versions above 3.5.

Added support for FreeBSD 5.1.

With advice from Allan Nathanson <ajn@apple.com> adjusted
the Darwin get-xnu-headers.sh script to access the kernel
header files needed by lsof from a new form of the Apple
open source repository.

Installed Linux and lsof library bug fixes and
improvements, supplied by Marian Jancar <mjancar@suse.cz>.
One Linux improvement handles mount strings that
have octal escapes in them, eg., \040 for embedded
blanks. Marian tested the changes.

4.69 October 16, 2003
Received and applied an OpenBSD patch from Peter Valchev
<pvalchev@sightly.net> that replaces a ctob() call with
a sysconf() call. Peter claims sysconf() is needed for
OpenBSD on SPARC.
(It is not needed for NetBSD on SPARC.)

With the upgrade of my only Solaris 7 test system
to, Solaris 8, dropped the *claim* that lsof works
on Solaris 7. That doesn't mean it won't work
there, so those who want lsof for Solaris 7 probably
should be able to build it there and it probably
will work there.

Revised lsof's DNLC handling for BSD derivatives,
including: BSDI; Darwin, DEC OSF/1, Digital UNIX

and Tru64 UNIX; FreeBSD; NetBSD; and OpenBSD. The
latest NetBSD distribution's dropping of the vnode
capability ID (v_id) required the revision.

Adjusted to the latest FreeBSD 5.1-CURRENT.

Added NetBSD support for using kvm_getproc2().

Added a patch from Andrew Brown <atatat@atatdot.net>
to handle NetBSD enum conflicts and changes in the
<miscfs/kernfs/kernfs.h> and <miscfs/procfs/procfs.h>
header files.

Added a "#define _KERNEL" to the AIX dnode2.c source
file for compatibility with a new <j2/j2_inode.h>
AIX 5.2 header file version. The
addition was
supplied by Dick Dunbar <Dick.Dunbar@Siebel.com>
and was offered as a patch to lsof 4.68/

Added support for a second type of Solaris SAMFS.
Stuart Anderson <sba@srl.caltech.edu> provided the
support. SAMFS support in lsof SOLARIS remains
scanty, because Sun won't release any details on
its kernel structures.

Dropped the *claim* that lsof works on AIX 4.3.3,
because I was unable to test it there. That doesn't
mean it won't work there, so those who want lsof
for AIX 4.3.3 probably should be able to build it
there and it probably will work there.

Updated for Solaris 10 on test systems provided by
Mike Miscevic <miscevic@hotpop.com>. Casper Dik
<casper@holland.sun.com> provided significant help.
During the Solaris 10 port found and fixed an lofs
handling bug that prevented reporting of open lofs
file lock status.

Updated the DNLC test, LTdnlc, to provide a possible
explanation about file systems on which the test
might fail.

Modified
the procedure for obtaining missing Darwin
XNU kernel header files. The new one requires more
manual intervention, but is the best that can be
done with the way Apple open sources are now

organized. 00FAQ explains the new procedures for
those not used to downloading Apple open source
files.

Added support for Apple Darwin 7.0 (Mac OS X 10.3)
with patches supplied by Allan Nathanson <ajn@apple.com>.
Dropped the *claim* that lsof builds and works on
Apple Darwin below 6.0.

Validated lsof on FreeBSD 4.9, using a test system
provided by Ben Lewis <bl@purdue.edu>.

Validated lsof on FreeBSD 5.1-CURRENT for Amd64.
David O'Brien <obrien@FreeBSD.org> provided a test
system.

Changed the NetBSD Configure stanza to do header
file searches in /usr/include by default. The
LSOF_INCLUDE and NETBSD_SYS environment variables
may still be used to specify other search paths.
Discussions with Andrew Brown and Wolfgang S.
Rupprecht <wolfgang@wsrcc.com>
led to the change.

4.70 January 16, 2004
Improved shell-portability of the linux stanza of
the Configure script with a patch from Paul Jarc
<prj@po.cwru.edu>.

Added a "silent" rule to tests/Makefile for Paul.
Updated, extended and clarified the test suite
documentation in 00FAQ and 00TEST.

Fixed Solaris 10 dlsof.h typo, reported by Mike
Miscevic <miscevic@hotpop.com>. The typo prevents lsof
from loading cleanly in Solaris 10 builds past 40.

Fixed a Solaris HSFS node number reporting bug and
added a structure definition work-around for Solaris
10.

Converted PGP signing to GPG. My previous PGP key can
be used, but the gpg "--allow-non-selfsigned-uid"
option may have to be used when it is imported into a
GPG key ring.

Added bz2 compression.

Updated for OpenBSD 3.4.

Added a work-around for a missing header file in the
s10_44 Solaris 10 build.

Added support for FreeBSD 5.2-BETA and 5.2-CURRENT.

Updated Linux AX25 support with modifications
supplied
by Lutz Poetschulat <dl9cu@db0zwi.de>.

Added raw IPv6 support to Linux lsof.

Improved handling of parameters after "-i@".

Improved file name test in LTdnlc.c.

Added loop count controls to the reading of Solaris
lock chains. The change was implemented as a result of
a report from Steve Gonczi <steve@relicore.com>.

Based on a report from John Jackson <jrj@purdue.edu>,
enabled a Solaris 10 <sys/lgrp.h> work-around for
Solaris 9, too. (Patch 112233 installs an lgrp.h on
Solaris 9 that needs the work-around.)

With help from Andrew Brown <atatat@atatdot.net> and
John Heasley <heas@netbsd.org> added log-structured
file system (LFS) support for NetBSD and OpenBSD.

Added AMD64 to the list of FreeBSD 5.x-CURRENT
supported architectures. FreeBSD.org provides a test
system, courtesy of (I believe) David O'Brien
<obrien@FreeBSD.org>.

Added a cast to lseek() in the HP-UX /dev/kmem-based
kread() function to make it work properly with
the
bundled HP C compiler.

4.71 March 11, 2004
Added text file support to Apple Darwin lsof and
enabled the lsof executable portion of the LTbasic
test. Added support for Darwin kernel queue, POSIX
semaphore and POSIX shared memory files. Tested on
Darwin 7.2 (aka Mac OS 10.3.2).

Added process_kqueue() function prototypes for FreeBSD,

NetBSD and OpenBSD.

Picked some lint in AIX sources, lib/rnmh.c and tests/LTsock.c.

Added "-x [fl]" cross-over option, which enables +d and +D processing to cross over symbolic links and|or file system mount points. Discussion with Johan Lindquist <johan@smilfinken.net> and Eric Williams (aka The Ghost In The Machine) <ewill3@earthlink.net> on Linux news groups revealed the need for the option.

Updated support for UnixWare 7.1.4.

Added support for the optional reporting of socket options, socket states and TCP flags for most currently supported dialects. John Smith <lbalbalba@hotmail.com> and Tristan Nefzger <tn@bhtrader.com> requested the information. The dialects and their versions for which this feature has become available include:

AIX 4.3.2 and 5.[12]
Apple Darwin 7.2
BSDI BSD/OS 4.3.1
Digital UNIX and Tru64 UNIX 4.0
FreeBSD 4.9 and 5.2
HP-UX 11 and 11.11 (aka 11i)
NetBSD 1.6ZH
OpenBSD 3.4
OPENSTEP 4.2
OpenUNIX 8
SCO OpenServer Release 5.0.6
Solaris 2.6, 8, 9 and 10
UnixWare 7.1.[134]

Modified the Configure stanza for HP-UX 11 with better q4 detection. Steve Bonds <3vhmxxm02@sneakemail.com> supplied the modification.

Applied a patch from Mike Miscevic <miscevic@hotpop.com> to enable lsof to compile with the zone support in the Solaris 10 s10_b51 release. Added information on lsof zone behavior to 00FAQ.

Added a "-z [z]" option to Solaris 10 lsof. It enables the listing of zone name and can also be used to select the listing of processes and their files from specified

zones.

4.72 July
13, 2004
Corrected Solaris 10 ZONE column title display bug with
a patch from Joep Vesseur <Joep.Vesseur@Sun.COM>. Joep's
fix was offered as a patch to 4.71.

Based on a report from Jean-Pierre Radley <jpr@jpr.com>
about an unexpected GNU uname Configure interaction on
OSR, and working from information received from Bela
Lubkin, changed the OSR Configure stanza to use
/bin/uname instead of uname. Added an FAQ entry about
Configure version detection problems.

Added the +m and "+m m" options in response to a dialog
with Robert T. Brown <rbrown@netmentor.com>. The
options allow the creation of a mount table supplement
file which can be used on selected dialects to get
device numbers when stat(2) and lstat(2) can't deliver
them. (That's generally the result of an inaccessible
NFS server.) Currently the new options are supported
only on Linux.

Made cpumask_t typedef _KERNEL compensation for FreeBSD
5.2-CURRENT. Refined it for
5.2.1-RELEASE with testing
help from Scott Ellentuch <tuc@ttsg.com>.

Added support for FreeBSD 4.10. Larry Rosenman
<ler@lerctr.org> kindly provided a test system.

Added support for NetBSD 2.0 with patches supplied by
Andrew Brown <atatat@atatdot.net>. Andrew also
provided two test systems.

Made handling of Linux maps file more robust, based on
a report from Jan Blunck <J.Blunck@tu-harburg.de>. As
a side benefit, made handling of generated stat(2)
information more flexible.

As a result of a discussion with Jason Fortezzo
<fortezza@mechanicalism.net>, adjusted lsof for Solaris
to obtain the maximum user name length from ut_name of
the utmpx structure, if <utmpx.h> exists.

Tested under OpenBSD 3.5.

Updated 00README information about using gcc (via the
Configure aixgcc abbrevisiation) to compile lsof on
AIX. Ann Janssen <ajanssen@nebook.com> made me aware
the information was out of date.

Added an AIX SIGDANGER handler and some 00FAQ sections
on
lsof memory usage after a discussion with Tom Qin
<tom.qin@citigroup.com> about lsof memory usage.

Added scripts/sort_res.perl5, contributed by Fabian
Frederick <fabian.frederick@gmx.fr>. The script
displays lsof output sorted by size and path name.

Improved handling of files on Linux NFS mount points
that use the root_squash option, based on discussions
with Paul Szabo <psz@maths.usyd.edu.au>.

Updated FreeBSD 5.2-CURRENT support, based on a problem
report from Filippo Natali <filippo@widestore.net>.

Corrected improper FreeeBSD 5.x-CURRENT #if condition,
reported by Kim Culhan <kimc@kim.net>.

Added a Configure script work-around for AIX 5.2 lsof
with JFS2, compiled by gcc >= 3.3. The work-around
was supplied by Florian M. Weps <fmw@hactrn.ch>.

4.73 October 21, 2004
Added an __XPG4_CHAR_CLASS__ #define before
#include'ing <ctype.h> on Solaris to restore lsof's
ability to display special characters such as acute-e.

Added wide-character
(e.g., UTF-8) support where
possible, prompted by a request from Kyungjoon Lee
<kjoonlee@gmail.com>. Some older dialects -- e.g.,
NetBSD 1.4.1 -- don't support wide characters, so the
wide character support is enabled by definitions in
each dialect's machine.h. Dialects with wide-
character support are listed in 00FAQ.

Make a FreeBSD 5.2-CURRENT adjustment for <sys/pipe.h>,
supplied by Sergey A. Osokin <osa@FreeBSD.ORG>.

Implemented a Linux feature request made by Jakub
Jelinek <jakub@redhat.com> that enhances lsof's ability
to locate UNIX domain sockets whose paths are named as

arguments. Jakub supplied suggested code.

Dropped *claims* that lsof works on AIX below 5.1, SCO
Dropped *claims* that lsof works on AIX below 5.1, SCO
Openserver 5.0.4, Tru64 UNIX 5.0, and UnixWare below
7.1.4. Lsof will probably build and work on those UNIX
dialect versions, but I no longer have any way to test
lsof on them.

Added support for FreeBSD 5.3 and
6.0. The FreeBSD
5.3 support hasn't been tested.

Added FD test code that will allow dialect versions to
test FD option selections. Used the new code in the
PSTAT-based HP-UX lsof to enable it to avoid scanning
the mount table when its information is not needed.
The addition was made in response to a query from
Harvey Garner <Harvey.Garner@championusa.com> about
lsof performance in a busy NFS environment.

Upgraded lsof's AIX support level to AIX 5.3, based on
a report from Dick Dunbar <Dick.Dunbar@Siebel.com>. (I
have not tested lsof under AIX 5.3.) Based on Dick's
recommendation and local testing changed the C for AIX
version 6 and higher -qmaxmem option value to -1.

Made LSOF_AR environment variable more useful and
documented it in 00XCONFIG.

Corrected the use of sum(1) to generate signatures for
the lsof distribution and binaries to match the
documentation that claims it is sum -r output. Jin
Guojun <jin@george.lbl.gov> noticed and reported
the
problem.

Tested under OpenBSD 3.6.

Added checksum and GPG certificate files for the bz2,
gz and Z lsof distribution archives. The new files
reside with the distribution archives and supplement
the signature information already inside the archives.

Validated on Solaris 10, i8xpc, build s10_63.

4.74 January 17, 2005
Fixed a Solaris segment fault bug on systems that lack

a /dev/allkmem device. Offered the fix as a patch to
lsof 4.73. The bug was reported by Donald Zoch
<donald.zoch@amd.com>.

Updated lsof for FreeBSD 6.0 and higher for a change in
<sys/vnode.h>, based on a report from Sergey A. Osokin
<osa@FreeBSD.ORG>. Made the update available in a 4.74
'A' edition pre-release.

Filed an HP bug report about missing pstat(2) CWD info
for LOFS on HP-UX 11.11 and higher. The missing CWD
info was noticed by Ermin Borovac <e.borovac@bom.gov.au>.
Added info to 00FAQ about the problem, which can cause
the lsof test suite's LTbasic test
to fail.

Updated the q4-generated tcp_s.h in the lsof
distribution and added socket option support for HP-UX
11.00. Erwin Reyns <ereyns@europarl.eu.int> helped
test.

Updated for Solaris 10, build s10_69, with a patch
supplied by Mike Miscevic <miscevic@hotpop.com>.

Added v_path support to Solaris 10 lsof. That relieves
it of having to read and decode the kernel DNLC, and
delivers full paths more reliably.

Added specialized NFS4 support to Solaris 10 lsof.

Applied Solaris 10 patches to lsof supplied by Casper
Dik <casper@holland.sun.com>.

Updated lsof for NetBSD 2.99.10 and tested it on a
system provided by Andrew Brown <atatat@atatdot.net>.

Added support for the FreeBSD 6.0-CURRENT f_vnode
pointer in the file structure.

Added BSDI, FreeBSD, NetBSD and OpenBSD support for the
*effnlink member of the inode structure. This makes
the lsof LTnlink test run faster on all modified
dialects and correctly on OpenBSD.

Added ptyfs support for
NetBSD, using modifications
provided by Andrew Brown.

Changed the netbsd Configure stanza to look by default
for system header files in both /usr/include and
/usr/src. (The NETBSD_SYS environment variable can
still be used to select an alternate for /usr/src.)

Corrects two FreeBSD 4.10 RPC/XDR type definitions.

Added an FAQ Q&A about setuid and setgid restrictions
in HP-UX 11.11. The information in the answer was
supplied by Frank Sanders <frank.sanders@siemens.com>.

Added abbreviations for AXI FCIO and FSNAPSHOT file
flags. Holger VanKoll <Holger.VanKoll@swisscom.com>
reported the missing FCIO.

Adjusted lsof's private AIX 64 bit rnode structure for
64 bit AIX 5.2 systems. (IBM doesn't distribute a
correct <nfs/rnode.h> for it.)

Corrected a Linux socket inode printing bug reported by
Igor Schein <igor@txc.com>.

Updated for FreeBSD 4.11. The support compiles but
hasn't been tested.

Back-ported a FreeBSD 6.0-CURRENT fix to FreeBSD
5.3-RELEASE-p1.
That was done to solve a compilation
problem reported by Radko Keves <rado@daemon.sk>.

4.75 May 16, 2005
Dropped the *claim* that lsof works on DEC OSF/1 and
Digital UNIX, since my last 4.0 test system has been
removed. The last tested distribution of lsof on DEC OSF/1
and Digital UNIX was revision 4.74. It has been archived
on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

Added negation forms to the values in the -g (PGID) and
-p (PID) lists. Negated PGID and PID values, like
negated UID or login name values, are applied without
ORing or ANDing and take effect before any other
selection criteria are applied.

At the request of Marcin Gozdalik <gozdal@gmail.com>
added a -X option for Linux. The option inhibits the
reading of the /proc/net/tcp* and /proc/net/udp*
files.

Based on a report from David Gutierrez <davegu1@hotmail.com> changed DEC OSF/1 process table allocation to request memory in smaller increments.

Based on a report from jayjwa <jayjwa@atr2.ath.cx> updated the Customize script to use "tail -n 1" where possible.

Enabled support for FreeBSD 5.4.

Improved the BSDI, FreeBSD, NetBSD, OpenBSD and Solaris kvm_open() and kvm_openfiles() error messages.

Enabled support for NetBSD 2.99.12.

Improved HP-UX Configure stanza with help from Piet Starreveld <pstarrev@csc.com>. Picked some lint Piet found.

Enabled IPv6 support for HP-UX > 11. Piet Starreveld helped test it on 11.23, among others.

Updated for HP-UX 11.23 on the ia64 architecture.

Updated to latest FreeBSD 6.0-CURRENT, using a test system provided by Andrzej Tobola <ato@iem.pw.edu.pl>.

Added support for SCO OSR 6.0.0 and UnixWare 7.1.4 with help from Richard at SCO.

Corrected a Linux bug in NFS handling, reported by Karel Zak <kzak@redhat.com>. Karel supplied a patch.

Improved the code for accessing an AIX 3.2 and higher sockaddr_un structure, thus eliminating a segmentation fault possibility.

Updated for AIX 5.3.

Added preliminary (DEBUG) support for the AIX SANFS file system.

Fixed a bug in the Solaris 10 processing of the vnode's v_path pointer with code supplied by Edward Jajko <ejajko@portal.com>. The fix was offered as a patch to 4.74.

Dropped support for OpenUNIX 8, since a test system is no longer available. Archived an OpenUNIX-only distribution of the last revision (4.74) tested on OpenUNIX in pub/tools/unix/lsof/OLD/src.

Tested under Openbsd 3.7.

Tested under Darwin 7.7.0.

Enabled building on amd64 Solaris 10 with hints from Marc Aurele La France <tsi@ualberta.ca>. Marc provided a test system.

Supplied a missing quote in the FreeBSD Configure stanza. Carl Cook <Info@quantum-sci.com> reported the problem.

Removed "-O" option from tests/Makefile so that the HP-UX bundled compiler won't complain.

4.76 August 30, 2005

Corrected an example and spelling errors in man page.

Updated for Apple Darwin 8.x with changes supplied by Allan Nathanson <ajn@apple.com>. Allan also provided a test system.

Completed documentation of CLRLFILEADD in all machine.h files.

At the request of Chris Markle <cmarkle@sendmail.com> added partial listen queue length to socket options displayed when -Tf is specified. Partial queue length is not reported for all dialects. (00FAQ lists the ones where it is reported.)

Updated for FreeBSD 7.0 with information supplied by Andrzej Tobola <ato@iem.pw.edu.pl>.

Updated Solaris VxFS support for VxFS versions 4 and above with technical advice from Craig Harmer <craig_harmer@symantec.com>, Gary Millen <gary_millen@symantec.com> and Chuck Silvers <charles_silvers@symantec.com>. Testing help was provided by Michael Antlitz <mantlitz@prophasys.com>, Steve Ginsberg <steve@dhapdigital.com> and Kenneth

Stailey <kstailey@yahoo.com>.

Fixed a Solaris address space map processing bug.
Janardhan Molumuri <mjanardhan@gmail.com>
reported the
bug and help me identify it. Made the fix available as
a patch to 4.75.

Added support for Solaris 10 port and CTFS files. The
CTFS support is imcomplete, because I don't know how
to get inode number, size and link count. (There's
a new 00FAQ entry about that.)

Investigated a report from Christopher J Warweg
<warwegc@GAO.GOV> that the CHECKSUMS for the lsof 4.75
binary for 64 bit Solaris 8 was incorrect. It was my
packaging error. I rebuilt and repackaged the binary.

Enabled support for Linux map file names with embedded
spaces.

4.77 April 10, 2006
Added -X option support for Solaris 10 and above. When
-X is specified lsof will report cached v_node path
names for unlinked files, followed by "(deleted)".
Improved cached vnode path name handling by adding
"(?)" to the end of path names of questionable accuracy.
Updated 00FAQ to reflect these changes.

Updated for FreeBSD 7.0-CURRENT.

Fixed name addition spacing bug, reported
by Stuart
Anderson <anderson@ligo.caltech.edu>. Also updated
Solaris 10 SAMFS support at Stuart's request.

Added missing "break;" and another HASSTATVFS test to
the NetBSD and OpenBSD dnode.c. Bill Behr
<bbehr@networkstoragecorp.com> reported those needs.

Fixed an HP-UX 11 file descriptor "chunk" size problem,
reported by Per Allansson <per@appgate.com>. Per helped
devise the fix and tested it. This fix was offered as
a patch to lsof 4.76.

Updated for FreeBSD 6.0-STABLE and FreeBSD
6.1-PRERELEASE.

Updated scripts/sort_res.perl5 with changes supplied by Frederick Fabian <fabian.frederick@skynet.be>, the author of the script.

Corrected +|-M man page documentation error, reported by Roger Cornelius <rac@tenzing.org>.

Improved FreeBSD user device random seed generation in response to a problem report from Danny Braniss <danny@cs.huji.ac.il>.

Eliminated three syntax error bugs and other compiler complaints from the PSTAT-based lsof. H. Merijn Brand <h.m.brand@xs4all.nl> reported the problems and tested the fixes.

Eliminated compiler complaints in the test suite.

Investigated problems with the building of lsof on PA-RISC HP-UX 11.23, based on a report from John Orndorff <John.Orndorff@sungard.com>. Found that neither the HP bundled C compiler nor gcc would build lsof, but the the HP unbundled ANSI C compiler would. Concluded that HP bundled C compiler can't handle <gssapi/gssapi.h>. Devised a work-around to gcc's omission of the rpcent structure definition of <netdb.h> that allows it to compile lsof's print.c, but the resulting binary doesn't run reliably. Documented the situation in 00FAQ.

Changed reporting of unknown file types. The number of an unknown type is now reported as four octets. The change was made in response to a Linux lsof bug report from Karel Zak <kzak@redhat.com>.

Dropped the *claim* that lsof works on BSDI BSD/OS since my last test system has been removed. The last tested distribution of lsof for BSDI BSD/OS was revision 4.76. It has been archived on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

As a result of discussing the lsof source tar's MD5 checksum with Andrew Bell <andrew.bell.ia@gmail.com>, changed the description of a suitable MD5 tool in the lsof distribution's documentation to name the openssl "dgst" command.

Enabled compilation on Solaris 10 1/06 with a fix sent by Jason Fortezzo <fortezza@mechanicalism.net>. Made the fix available as a patch to 4.76.

Adjusted to FreeBSD 5.5-PRERELEASE.

Corrected a bug in the lsof library's process_file() function to enable the locating of AIX XTI sockets by their TCP/IP address values. The bug was reported by Michel Dubois <Dubois@sears.ca>.

Based on a bug report from Karel Zak <kzak@redhat.com> added command name length checking to as many dialects as possible (Linux for Karel) for the "-c c" option.

Updated for OpenBSD 3.[89].
Tested the 3.9 update on a
system provided by David Mazieres. I have not tested on OpenBSD 3.8, but David reports lsof 4.76 worked there.

Ended regression testing of lsof on 32 bit Solaris 8 with the ending of access to a test system. Lsof continues to be tested on 64 bit Solaris 8.

4.78 April 24, 2007
Added more information to the lsof FAQ about missing link counts and sizes on Linux files.

Simplified Linux stat() and lstat() usage.

Relocated #define's that prevent OpenBSD compilation on systems without a /proc file system. Pieter Bowman <bowman@math.utah.edu> reported the problem.

Added code to avoid processing Linux /proc/<PID>/maps file entries with zero device and node numbers. Some such entries now have names associated with them that are not path names -- e.g., "[heap]", "[stack]" or "[vdso]". Scott Worley <sworley@chkno.net> reported lsof's mishandling of such entries.

Added SELinux security context support, provided by James
Antill <james.antill@redhat.com>. I have not tested this, but James and Karel Zak <kzak@redhat.com> have.

Added the #include of <sys/types.h> to Solaris lsof to
enabled compilation on Solaris 10 6/06. Peter Harvey
Peter.Harvey@Sun.COM diagnosed the problem and supplied
a patch.

Added better support for JFS2 on AIX 5.2 and 5.3, based
on bug reports and help from Thomas Braunbeck
<BRAUNBEC@de.ibm.com> and Tom Whitty <TWHITTY@cerner.com>.

Documented that lsof supports AIX 5.3 only up through
maintenance level 1 (ML1).

Enabled Solaris lsof to locate the AFS vnode operation
address for OpenAFS 1.4.1. The fix was supplied by
Robert Jelinek <Robert.Jelinek@MorganStanley.com>.

Enabled support for Solaris 10 ZFS. If the necessary
ZFS header files aren't found, lsof offers the option
to drop ZFS support, to use internal, possibly
inaccurate structure definitions, or to supply a path
to the missing header files. Horst Scheuermann
<Horst.Scheuermann@uni-trier.de>
provided a development
system and helped test the support.

Corrected a typo in the man page, reported by Eric S.
Raymond <esr@thyrsus.com>.

Changed the spelling of macroes to macros in lsof
source and documentations files, based on a suggestion
from Josh Soref <timeless@gmail.com> and verification
with the OED.

The following dialects are no longer supported: 32 bit
AIX 5.2, HP-UX 11, OpenStep 4.2, Solaris 2.6, Solaris
8, True Unix 64 and UnixWare 7.1.4. Lsof may work on
them, but I no longer have test systems for them.
Support for OpenBSD ends at its version 3.9 for lack of
interest in the port.

4.79 April 15, 2008

********** IMPORTANT NOTE **********
*
* Lsof support has been reduced to the following *
* dialects: AIX, FreeBSD, Linux and Solaris, and *
* only in selected versions of those dialects. *

```
* The selected versions are listed in this file  *
* and
in other lsof documentation.              *
*                                         *
* I have made this move because of retirement    *
* and because I no longer have many test systems *
* available to me.                          *
*                                         *
* Vic Abell                                *
*                                         *
*************************************************
```

Fixed a Solaris VXFS permission problem when accessing the VXFS inode offsets. The bug was reported by Gregory A. Ivanov <ivga@mts.ru>. Gregory tested the fix.

Moved an #include <string.h> later in FreeBSD dlsof.h to enable compilation on recent FreeBSD releases. The change was supplied by Roy Marples <uberlord@gentoo.org>.

Improved Linux /proc file stream reading speed by applying an expanded version of a patch from Eric Dumazet <dada1@cosmosbay.com> that allocates a page size buffer to each stream.
Improved TCP, TCP6, UDP and UDP6 hashing by determining the hash bucket count from the /proc/net sockstat and sockstat6 files. The improvement was suggested by Eric and he provided sample code. Eric also tested both improvements.

Modified Configure script to build lsof on FreeBSD 6.2. Tested it on a system provided by Larry Rosenman <ler@lerctr.org>.

Fixed a Linux maps file processing bug that prevented path names from having an embedded colon. James Lingard <jchl@arastra.com> reported the bug and helped with its fix.

Based on reports from Eric Dumazet and Samuel Thibault <samuel.thibault@ens-lyon.org> added support for the Linux 2.6.22 kernel's /proc/<PID>/fdinfo files -- i.e., file offset and flags. Samuel Thibault provided a test system.

Fixed a Linux UNIX socket memory leak, reported by Philip Shin <pshin@xceedium.com>. Phillip supplied the

fix.

With generous assistance from HP added support for an HP-UX 11.23 patch that makes TLI/XTI socket address information available.

Fixed a header file problem for FreeBSD 6.2 on the Alpha architecture. The problem was reported by Pekka Honkanen <phonkane@cc.hut.fi>. Pekka tested the fix.

Based on a report and using suggested fixes from Karel Zak <kzak@redhat.com>, made these changes to Linux lsof: corrected a getpidcon() error message; insured that inode numbers are handled correctly for their unsigned long long type; and improved SELinux handling. At the request of Alon Bar-Lev <alonbl@gentoo.org> added the LINUX_HASSELINUX environment variable to enable or inhibit SElinux support unconditionally.

Updated Configure for FreeBSD 8.0-CURRENT and tested lsof on AMD64 there.

Added a patch provided by Oles Hnatkevych <don_oles@able.com.ua> for FreeBSD systems where the root file system is on a CD9660 device.

Added compensation for the disappearance of FMARK and FDEFER from the FreeBSD 8.0-CURRENT <sys/file.h>.

Updated FreeBSD lsof with ZFS support. Larry Rosenman <ler@lerctr.org>, Erwin Lansing <erwin@FreeBSD.org>, Wesley Shields <wxs@atarininja.org> and Dmitry Morozovsky <marck@rinet.ru> provided test systems.

Fixed a socket file identification problem reported by Pavol Rusnak <stick@gk2.sk>. Pavol also reported the cause of the problem.

Added the ability to format the repeat mode marker line with strftime(3), where the dialect supports the localtime(3) and strftime(3) C library functions. The addition was suggested by Mike Depot <mdepot@comcast.net>, who also tested it. The addition required creating a new main lsof source module, util.c, that contains functions whose compilation conflicts with the general header file tree defined by lsof.h and dlsof.h.

Based on reports from Andrei V. Lavreniyuk <andy.lavr@reactor-xg.kiev.ua> and Pav Lucistnik <pav@FreeBSD.org> updated the FreeBSD 7.0 and above file lock handling to use new locking structures. The update requires a terrible hack to get a definition for the lock owner structure from a kernel source module into a local lsof header file.

4.80 May 12, 2008

Updated for a FreeBSD 7.0 and above byte level locking change. The problem was reported by Conrad J. Sabatier <conrads@cox.net>, who helped test the update. Wesley Shields <wxs@FreeBSD.org> provided an 8.0-CURRENT test system.

Propagated the FreeBSD 7.0 and above locking changes to FreeBSD 6.x, based on a report from Edwin Groothuis <edwin@FreeBSD.org>.

Added warnings for unsupported dialects or versions.

Added Linux support for the UDPLITE protocol. Eric Dumazet <dada1@cosmosbay.com> supplied a patch.

Added a missing quote to the Configure script's FreeBSD stanza.

Added a usage.o rule to the HP-UX PSTAT-based Makefile. I mistakenly deleted the rule at revision 4.79. The missing rule was reported by Kawaljeet Kaur <kawaljeet.malviya@gmail.com> who tested the corrected Makefile.

4.81 October 21, 2008

Updated the Darwin libproc sources with changes from Allan Nathanson <ajn@apple.com>. Tested them on a iMac mini, provided by Apple Inc.

Changed dummy declarations in library source files to eliminate complaints about unused variables and empty object files. This change may not work on dialects I can no longer test; it has been tested on some versions of AIX, Darwin, FreeBSD, Linux and Solaris.

At the request of Hal Brooks <hal@uga.edu> added support for Linux /proc/net/packet files. Hal tested it.

Added socket file only performance enhancements to Linux
and PSTAT-based HPUX lsof.

Added htonl call around improper usage of INADDR_LOOPBACK;
report from an Apple engineer forwarded by Allan Nathanson
<ajn@apple.com>.

Adjusted for FreeBSD-8.0 change in device number handling.
The adjustment should work for FreeBSD 5 and above, should
the 8.0 change be propagated downward. The problem was
reported by Pav Lucistnik <pav@FreeBSD.org>.
An updated
test system was provided by Erwin Lansing <erwin@FreeBSD.org>.

Reduced AIX support to version 5.3, since test systems with
older versions are no longer available to me.

At the request of Marjo F. Mercado <mmercado@xceedium.com>
and Phil Shin <pshin@xceedium.com> applied some speed
improvements to lsof, particularly when the files of
interest are /Internet files -- i.e., selected with lsof's
"-i" option. Added a two new options to assist the
improvements: 1) "-c^<command>" to tell lsof to exclude the
named command(s); and 2) "-stcp|ud>:[^]state' to tell lsof
to include in its reporting or exclude ('^') from its
reporting Internet files in the named states (e.g., LISTEN,
^CLOSE_WAIT, IDLE, etc.) For the most part these changes
apply only to AIX, Darwin, FreeBSD, PSTAT-based HP-UX, Linux
and Solaris, since those are the only places I could test
them. They are controlled by the HASTCPUDPSTATE definition
in each dialect's machine.h header
file. Marjo and Phil
provided HP-UX 11.23 and 11.31 test systems.

Fixed a stat(2) problem on HP-UX 11.31 while testing the
speed improvements.

Adjusted for kernel header file changes in FreeBSD
8.0-CURRENT. Larry Rosenman <ler@lerctr.org> provided
a test system.

Added a warning for Solaris systems where VxFS node info
can't be obtained from the VxFS utility library. The
warning was requested by Tom Matthews <Tom.MATTHEWS@rbs.com>.

Corrected mishandling of file system path name arguments
that have trailing slashes, except, of course, the root

file system, "/". Allan Nathanson <ajn@apple.com> reported
the bug.

4.82 March 25, 2009
Corrected an over-zealous exclusion test that caused
lsof to report nothing when it was given no arguments
and built with HASSECURITY and HASNOSOCKSECURITY enabled.
Joshua Kinard <kumba@gentoo.org> reported the bug and
supplied information for reproducing it.

Based on a report from Dan Trinkle <trinkle@cs.purdue.edu>
corrected
use of <sys/utsname.h> for 32 bit Solaris 10
and above compilations. Simultaneously eliminated a
casting complaint in arg.c and updated Configure to use
the appropriate 64 bit compilation option (-xarch=v9 or
-m64) with the Solaris Sun C compiler.

Updated for FreeBSD 7.1-PRERELEASE with information
supplied by Larry Rosenman <ler@lerctr.org>.

Updated the Darwin libproc sources with changes from
Allan Nathanson <ajn@apple.com>. Tested them on a iMac
mini, provided by Apple Inc. Allan also provided man
page corrections.

Updated the FreeBSD Makefile to use the ${MAKE} variable
for ZFS dnode2.c module compilation, based on a suggestion
from Alexis Ballier <aballier@gentoo.org>.

Improved the Solaris VxFS library location test, based on a
suggestion from Jason Fortezzo <fortezza@mechanicalism.net>.
Jason tested the change.

Updated Solaris 10 ZFS support for ZFS version 4 and ZFS
pool version 10, using a test system kindly provided
by
Vladislav Nespor <vladislav.nespor@id.ethz.ch>. Renata
Maria Dart <renata@slac.stanford.edu> tested on ZFS
version 4, verifying that the update works there, too.
(ZFS pool version 10 is apparently the ZFS version shipped
with the 10/08 update to Solaris. The original ZFS
support targeted ZFS version 3.)

I still consider ZFS support in Solaris lsof a hack,
because it depends on a znode structure definition that
I developed using dbx. Sun is remiss in not distributing
the ZFS header files used to build the distributed kernel.

Because of the znode structure definition hack, I can't guarantee that lsof ZFS support will work for any other versions of ZFS.

Solaris 10: adjusted to a change in the way devices are stored in the kernel; fixed a problem in zone handling; and added rudimentary sharedfs support. Carson Gaspar <carson@taltos.org> reported the device number problem, provided a test system, and tested the changes. Peter Vines <psv2b@eservices.virginia.edu> reported the zone handling problem and tested the fix.

Adapted to FreeBSD 8.0-CURRENT changes in device number computation. Problem was reported by Erwin Lansing <erwin@FreeBSD.org>. Larry Rosenman <ler@lerctr.org> provided a test system.

Corrected Solaris Configure test for appropriate VxFS library when using gcc to compile lsof.

Updated for loss of KAME IPv6 FreeBSD accommodations.

Adapted to FreeBSD 7.2. Made Configure script recognized FreeBSD 6.3.

4.83 January 18, 2010

Converted Solaris 10 and above ZFS support to use the CTF debugger library, libctf. Code was supplied by Robert Byrnes <Robert.Byrnes@deshaw.com>.

Corrected a typo in the testing of the LINUX_HASSELINUX environment variable in the Configure script. The error was reported by Mike Frysinger <vapier@gentoo.org>.

At Mike's request made Configure script accept LSOF_RANLIB (ranlib command), LSOF_CFGF (additional configuration flags) and LSOF_CFGL (additional library specifications) from the environment.

Enabled complilation of Solaris 10 lsof after a recent Sun patch which changed the PC file system's structure. Peter Vernam <pvernam@draper.com> reported the problem and helped with the fix.

Made the sort of configuration CFLAGS in the CkTestDB script impervious to locale settings.

Ported to Solaris 11, using a test system kindly provided by David Day <dday76@gmail.com>.

Adjusted to the disappearance of <nfs/rpcv2.h> in FreeBSD 8.0-BETA1.

Changed Solaris node type lookup to a hashed method and added some ability for it to handle duplicate vnodeop names in /dev/ksyms.

Updated for FreeBSD 9.0-CURRENT. Andrzej Tobola <ato@iem.pw.edu.pl> provided a test system. Extends the fix to FreeBSD 6.0 and above via a Configure test and a compile-time definition. The need for the extension was reported by Erik Trulsson <ertr1013@student.uu.se>>

Made corrections to FAQ typographical errors, suggested by
Josh Soref <timeless@gmail.com>.

Added __UCLIBC__ test to Linux dlsof.h so lsof would compile on an Intel ARM XScale processor. The addition was provided by Doug Kehn <rdkehn@yahoo.com>.

Added test for <utmpx.h> to FreeBSD configuration. Improved its use in lsof.h. The changes were supplied by Martin Wilke <miwi@FreeBSD.org>.

4.84 July 29, 2010

Fixed a man page nroff command error with a correction supplied by Josh Soref <timeless@gmail.com>.

Made Configure script recognize FreeBSD 7.3. Larry Rosenman <ler@lerctr.org> provided a test system.

Improved task support, initially for Linux only, with help provided by Jerome Marchand <jmarchan@redhat.com> and Miklos Szeredi <mszeredi@suse.cz>. The support includes a new compile-time definition, HASTASKS, and a new run time option, "-K" to select task reporting.

While adding help output support for "-K", reorganized the printing of help columns to make it much easier to add a new option
description.

Updated the Solaris PC file system structure patch in

revision 4.83 so it will compile with gcc.

Disabled the Solaris lgrp_root work-around in the Solaris
machine.h so it won't cause compilation problems on Solaris
11. It no longer causes compilation problems on my Solaris
9 and 10 test systems, but some older Solaris 9 and 10
versions may still need it, so the work-around was left in
the Sun machine.h and a FAQ entry was created about it.

Updated for Solaris 11 b134, using a test system kindly
provided by Carson Gaspar <carson@taltos.org>. Made
provisions for the next ZFS version. Added info about
the failure of the LTnlink test on ZFS file systems.

Corrected typo in Configure script, reported by Dmitry
Berezin <dmitryb@oit.rutgers.edu>.

4.85 September 27, 2011
John Dzubera <Zube@CS.ColoState.EDU> kindly provided a patched
Solaris 9 test system with the lgrp_root conflict and I was
able to devise an automatic work-around for the
conflict. The
special note in .../dialects/sun/machine.h was removed and
the 17.28.1 FAQ entry was modified to reflect the update.

Added a Solaris 11 work-around for a typedef problem with
<sys/mutex.h>. Carson Gaspar <carson@taltos.org> reported
the problem and supplied the work-around.

Added support for FreeBSD 7.4 and 8.2; tested on systems
provided by Larry Rosenman <ler@lerctr.org>.

Added support for 32 bit Solaris 11 lsof with mods supplied
by Jan Wortelboer <J.H.P.Wortelboer@uva.nl>.

Added Solaris 11 support for using an alternate genunix
location. Bill Goodridge <bill@its.brooklyn.cuny.edu>
reported the alternate location.

Added further Linux cross configuration support to lsof's
Configure script. The additional support was supplied by
Grant Erickson <erick205@umn.edu>. See the descriptions of
the LINUX_* environmen variables in 00XCONFIG for more
information. Tested lsof on Linux kernel 2.6.32 and picked
some lint that surfaced
during the test.

Added fixes and changes for Apple Mac OS X 10.6, provided by

Allan Nathanson <ajn@apple.com>. Allan also provided a test system.

Tested on FreeBSD 6.4 i386, using a test system provided by Terry Kennedy <TERRY@tmk.com>. Updated for recent FreeBSD ZFS changes on an 8.2 amd64 test system also provided by Terry.

Changed documentation to indicate FreeBSD 7.x is no longer supported, since I no longer have a test system.

Made some changes to the lsof man page, suggested by Navid <evi1m4chine@googlemail.com>.

Added compensation for Solaris 10 systems that have patch 144488-10. The patch requires that the new header file <sys/socket_proto.h> be included while _KERNEL is defined. Brett Bartick <Brett.bartick@nomura.com> reported the problem first, followed by Stuart Anderson <anderson@ligo.caltech.edu>. Michael Hocke <michael.hocke@nyu.edu> suggested a work-around which I refined to limit it to the specific Solaris 10 instance and then tested on a system provided by Charles Stephens <cfs@cowlabs.com>

Added the +|-e option for Linux. It exempts file systems named by path from function calls that might block in the kernel -- i.e., stat(2) and lstat(2), and when the +e form is used, readlink (2). The new packager of lsof for the Linux Fedora and RHEL distributions, Peter Schiffer <pschiffe@redhat.com>, asked for the feature so it could be used with Clearcase file systems, whose implementation can block stat(2) calls. I consider this feature very risky and easy to misuse -- e.g., specifying the file system as '/' would exempt all file systems. I don't intend to propagate this option to any other UNIX dialect that lsof currently supports.

Made FreeBSD 9 adjustment.

Fixed a Linux bug that prevented the display of paths for abstact UNIX sockets. Masatake Yamato <yamato@redhat.com> reported the bug and supplied a patch.

Added compensation for the removal of RPC header files from GlibC 2.14 for Linux. Marek Behun <kabel@blackhole.sk> reported the problem and supplied a patch.

Added support for Linux Netlink protocol. Masatake Yamato requested the support and supplied a patch. Peter Schiffer <pschiffe@redhat.com> provided a test system.

Corrected Linux UDP6-lite path. The error was reported by Masatake Yamato and he also supplied a patch.

4.86 April 10, 2012

Lsof for AIX is no longer supported on any versions of that operating system.

Added information about the clang compiler for FreeBSD to the FAQ.

Corrected an arg.c bug in the accumulation of +|-e option values, reported by Peter Schiffer <pschiffe@redhat.com>. This correction was supplied as a patch to revision 4.85.

Enabled FreeBSD 10 support and tested it there on a system provided by Larry Rosenman <ler@lerctr.org>.

Updated for latest Solaris 11 with patches supplied by Carson Gaspar <carson@taltos.org>. Carson supplied a test system.

Adjusted Linux file system search method to compensate for NFS mounts that have duplicate device numbers. The problem was reported by Peter Schiffer <pschiffe@redhat.com>, who provided a test system.

At the request of Peter Schiffer <pschiffe@redhat.com>, added support for Linux SCTP socket files. Peter provided a test system. Applied a warning patch supplied by Peter.

Added support for Mac OS X 10.7 (Lion), provided by Allan Nathanson <ajn@apple.com>. Allan also supplied a test system.

Enabled FreeBSD 8.3 support and tested it there on a system provided by Larry Rosenman <ler@lerctr.org>.

Corrected the FAQ information on ZFS with Solaris 10 after Steven Blackmon <stblackm@cisco.com> and Prasad Jampala <jampalp@cisco.com> pointed out that it was incorrect -- i.e., outdated by the libctf changes at revision 4.83.

Added code to handle a Linux NFS-mounted root. Jia He

<hejianet@linux.vnet.ibm.com> reported the need for this.

4.87 January 2, 2013
Added an entry
to 00FAQ about lsof behavior when the
HASSECURITY and HASNOSOCKSECURITY options are defined.
Carson Gaspar <carson@taltos.org> pointed out the need
for this clarification.

Added a work-around for a missing definition of mach_port_t
in Darwin 9 (Mac OS/X 10.5.8). The work-around was supplied
by Jim Reid <jim@rfc1035.com>.

Added support for Linux anon_inodefs, provided by Masatake
YAMATO <yamato@redhat.com>.

Documented a Solaris 9 and 10 portmap reporting problem
(+M) in 00FAQ. The problem was reported by Clint
Roberts <Clint.Roberts@ttius.com>. I have no solution
to the problem, but discuss a possible work-around in
the answer to this 00FAQ question: "Why doesn't lsof
report portmap registrations for some Solaris versions?"

Added FreeBSD support for the oldnfs and newnfs file system
types. Daniel Braniss <danny@cs.huji.ac.il> reported the
need for the addition.

Added ICMP socket support for Linux with code provided by
Masatake YAMATO <yamato@redhat.com>.

Corrected
the reporting of process group ID for libproc
versions of Mac OS X with a patch from Jeff Trawick
<trawick@gmail.com>. The patch has not been applied to
Darwin kmem versions, because of little call for them
and inadequate test system access. The patch has been
tested on Mac OS X 10.8 (Mountain Lion), courtesy of a
test system provided by Allan Nathanson <ajn@apple.com>.

Added thread support to those FreeBSD versions that have
ki_numthreads in their kinfo_proc structure. This also
activates the -K option for those FreeBSD versions. Jeff
Trawick reported problems with FreeBSD lsof when threads
are present and this addition solves those problems.

Made changes to 00FAQ and the distribution, suggested by
Warren Young <warren@etr-usa.com>. The 00FAQ changes
center on sections that discuss the -s option. The changes

to the distribution include a ChangeLog file that is either
a pointer to or a copy of 00DIST, the distribution
notes.

Added support to FreeBSD for using the clang compiler.

Added Linux support for using the getxattr() call to obtain
socket protocol identification when it is can't be obtained
from the /proc/net files that lsof examines. Masatake YAMATO
<yamato@redhat.com> developed the kernel patch to getxattr()
and supplied the lsof patch.

4.88 October 13, 2014
Reduced to 50 the number of open file descriptors lsof
attempts to close while trying to protect itself from a
file descriptor exec() attack. This limits the overhead
lsof incurs on systems that have large file descriptor
limits, yet provides sufficient open descriptors for the
library functions lsof calls.

Updated for changes in FreeBSD 10 with advice from Eygene
Ryabinkin <rea@freebsd.org>. Taught Configure to recognize
FreeBSD 8.4.

Herein am noting that lsof for Solaris 10 or 11 is no longer
supported. I no longer have test systems. Some support is
still available from Casper Dik <Casper.Dik@oracle.com>
and a
Solaris 11 patch he provided is included in this revision.

Initialized local variables in the Linux process_id() function.
Jia He <jiakernel@gmail.com> reported the problem.

Added support for FreeBSD 11.

Updated FreeBSD ZFS Configure stanza to supply a dummy
opt_kdtrace.h when needed.

Added tmpfs file system support for FreeBSD.

Since a test system is no longer available, dropped the
claim of FreeBSD 4.9 support.

Added the +|-E options for Linux. -E displays endpoint info;
+E displays endpoint info and endpopint files. Masatake YAMATO
<yamato@redhat.com> requested this support and suggested code
to implement it.

Fixed a Linux bug handling processes whose command includes a
non-printing character, particularly a NEWLINE character, and
clarified printing of single '\\' characters in command and
file names. Stephane Chazelas <stephane.chazelas@gmail.com>
reported the problem.

Added support for Linux RDMA and CRYPTO
protocal names and UNIX
socket type with code from Masatake YAMATO <yamato@redhat.com>.

Fixed field output to insure that the field descriptor field is
always selected, since it identifies the file set. The bug was
reported by Gary Plewa <gary.m.plewa-1@lowes.com>.

4.89 July 7, 2015
Applied correction from Casper Dik <Casper.Dik@oracle.com> to
his patch for Solaris 11 that I applied incorrectly in revision
4.88.

Updated for latest version of FreeBSD 11.0-CURRENT.

Compensated for a missing FreeBSD 10.0 typedef of bool on the
i386 architecture. Allen Hewes <rallenh@hotmail.com> provided
a test system. Andrey Chernov <ache@freebsd.org> provided
useful advice.

Improved tests/Add2TestDB script with a patch from Peter
Schiffer <pschiffe@redhat.com>. Added patches from Peter to
eliminate Linux gcc warnings. Updated Lsof.8 with improvements
supplied by Bjarni Ingi Gislason <bjarniig@rhi.hi.is>.

Changed FreeBSD global CFLAGS extraction per Terry Kennedy
<TERRY@tmk.com>.
Also made sure -DNEEDS_BOOL_TYPEDEF is
#define'd when the resulting CFLAGS doesn't contain it. Terry
reported that need.

Improved Linux test for tcp.h in response to a report from
Cato Auestad <cato@cato.ninja>. Cato did the testing.

Fixed Linux UNIX socket search by name bug reported by
Stephane Chazelas <stephane.chazelas@gmail.com>.

Added Linux display of UNIX socket endpoint information with
code provided by Masatake YAMATO <yamato@redhat.com>. Peter
Schiffer <pschiffe@redhat.com> provided a test system.

Insured that type definitions from <vm/vm.h> were again made

visible to lsof on FreeBSD 11 after a system header file change
hid them.

4.90 February 14, 2018

!!!NOTE!!!

Updated FreeBSD for new UFS inode structure that lacks an i_dev member in the most recent 12.0-CURRENT. Larry Rosenman <ler@lerctr.org> reported the problem and provided a test system.

Added "#define KLD_MODULE" to dlsof.h and dnode2.c to prevent <machine/cpuconf.h> from generating an "ARM_NARCH is 0" error.
This is needed so lsof can access kernel structures. Larry Rosenman supplied the addition.

Added recognition of the FreeBSD 11 file system name "nullfs". Jamie Landeg-Jones <jamie@catflap.org> supplied the fix.

Added a patch from Larry Rosenman <ler@lerctr.org> that is needed on FreeBSD 12 so the lsof compilation can obtain the inpcb and tcpcb structures from their respective header files.

Updated FreeBSD dmnt.c for the ino64 changes.

Inserted a patch for Solaris 12.x to avoid compilation errors from <sys/aio_req.h>, based on information provided by Jorn Clausen <joern.clausen@uni-bielefeld.de>. Jorn tested the patch.

Added performance enhancement that uses the FreeBSD closefrom() and dup2() C library functions when available. The enhancement was supplied by Conrad Meyer <cem@freebsd.org>.

Corrected FreeBSD lsof's gathering of ZFS file device numbers.

Updated lsof test library for FreeBSD.

Updated socket optons information collection from the socket structure per changes supplied by Gleb Smirnoff <glebius@FreeBSD.org>.

Added patch to dlsof.h that avoids a _KERNEL conflict with bzero. Mateusz Guzik <mjguzik@gmail.com> supplied the patch.

Corrected test library to handle 64 bit FreeBSD device numbers.

Added #defines for FreeBSD 12, src r324225, from Gleb Smirnoff <glebius@FreeBSD.org>.

Incorporated Linux pseudoterminal endpoint processing (+|-E)

provided by Masatake YAMATO <yamato@redhat.com> with access to
test systems provided by Peter Schiffer <pschiffe@redhat.com>.

Corrected Linux command extraction for commands that include
parentheses -- e.g., "(sd-pam)".

4.91 March 26, 2018

A bug has been reported in the PTY endpoint processing of
Linux lsof 4.90 by Peter Wu <peter@lekensteyn.nl>, making it
necessary for me to release another revision of lsof.

This revision applies two fixes that correct the Linux PTY
endpoint processing bug. Masatake YAMATO <yamato@redhat.com>
supplied
the fixes.

Vic Abell <abe@purdue.edu>
March 26, 2018

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/00DIST
No license file was found, but licenses were detected in source scan.

/*
* Copyright 1994 Purdue Research Foundation, West Lafayette, Indiana
* 47907. All rights reserved.
*
* Written by Victor A. Abell
*
* This software is not subject to any license of the American Telephone
* and Telegraph Company or the Regents of the University of California.
*
* Permission is granted to anyone to use this software for any purpose on
* any computer system, and to alter it and redistribute it freely, subject
* to the following restrictions:
*
* 1. Neither the authors nor Purdue University are responsible for any
* consequences of the use of this software.
*
* 2. The origin of this software must not be misrepresented, either by
* explicit claim or by omission. Credit to the authors and Purdue
* University must appear in documentation and sources.
*
* 3. Altered versions must be plainly marked as such, and must not be
* misrepresented as being the original software.

```
 *
* 4. This notice may not be removed or altered.
*/
/*
* GetOpt() -- Local get option
*
* Liberally adapted from the public domain AT&T getopt() source,
* distributed at the 1985 UNIFORM conference in Dallas
*
* The modifications allow `?' to be an option character and allow
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
*/
```

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/main.c
No license file was found, but licenses were detected in source scan.

```
/*
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* Written by Victor A. Abell
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*    University must appear in documentation and sources.
*
* 3. Altered versions must be plainly marked as such, and must not be
*    misrepresented as being the original software.
 *
* 4. This notice may not be removed or altered.
*/
```

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LsofTest.h

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

```
/*
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* 47907.  All rights reserved.
*
* Written by Victor A. Abell
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*
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*    misrepresented as being the original software.
*
* 4. This notice may not be removed or altered.
*/
/* Extended regular expression matching and search library,
  version 0.12.
  (Implements POSIX draft P1003.2/D11.2, except for some of the
  internationalization features.)
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write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330,
Boston, MA 02111-1307, USA. */

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/regex.c
No license file was found, but licenses were detected in source scan.

License: zlib and Sendmail and LGPLv2+

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```
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*
*
 4. This notice may not be removed or altered.
*/
/*
* GetOpt() -- Local get option
*
```

* Borrowed from lsof's main.c source file.
*
* Liberally adapted from the public domain AT&T getopt() source,
* distributed at the 1985 UNIFORM conference in Dallas
*
* The modifications allow `?' to be an option character and allow
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
*/

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LTlib.c
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*/

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LTsock.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LTnfs.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-

umngN5fz/lsof_4.91-rh/tests/LTlock.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LTdnlc.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LTszoff.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LTunix.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LTnlink.c
*
/lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LTbigf.c
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*/
/*
     * If this is a regular file with a non-numeric FD, it may be the
     * executable.
     */
```

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/tests/LTbasic.c

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Frequently Asked Questions about lsof

```
***************************************************************************
| The latest release of lsof is always available via anonymous ftp   |
| from lsof.itap.purdue.edu.  Look in pub/lsof.README for its        |
| location.                                                          |
***************************************************************************
```

This file contains frequently asked questions about lsof and answers
to them.

Vic Abell <abe@purdue.edu>
October 13, 2014

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12.2 Why doesn't lsof compile for NEXTSTEP with AFS?

13.0 OpenBSD
Problems
13.1 Why doesn't lsof support kernfs on my OpenBSD system?
13.2 Will lsof work on OpenBSD on non-x86-based architectures?
13.3 <sys/pipe.h> problems
13.3.1 Why does the compiler claim nbpg isn't defined?
13.3.2 What value should I assign to nbpg?
13.4 Why doesn't lsof report on open MS-DOS file system (floppy
disk) files?
13.5 Why isn't lsof feature xxx enabled for OpenBSD?

14.0 Output problems
14.1 Why do the lsof column sizes change?
14.2 Why does the offset have ``0t' and ``0x" prefixes?
14.3 What are the values printed in the FILE_FLAG column
and why is 0x<value> sometimes included?
14.3.1 Why doesn't lsof display FILE_FLAG values for my dialect?
14.4 Network Addresses
14.4.1 Why does lsof's -n option cause IPv4 addresses, mapped to
IPv6, to be displayed in IPv6 notation?
14.5 Why does lsof output \x, ^x, or \xnn for characters
sometimes?
14.5.1 Why is space considered a non-printable character in command
names?
14.6 Why doesn't lsof print all the characters of
a command name?
14.7 Why does lsof reject some -c command names, saying their lengths
are "> what system provides (nn)"?
14.8 Why does lsof sometimes print TYPE numbers instead of names?
14.9 Marker line format problems
14.9.1 Why won't lsof accept a marker line format?
14.9.2 Why does lsof reject the NL (%n) marker line format?
14.10 How are protocol state name exclusion and inclusion used?
14.10.1 Why doesn't my dialect support state name exclusion and inclusion?

15.0 Pyramid Version Problems
15.0.5 Statement of deprecation

16.0 SCO Problems
16.1 SCO OpenServer Problems

16.1.1 How can I avoid segmentation faults when compiling lsof?
16.1.2 Where is libsocket.a?
16.1.3 Why do I get "warning C4200" messages when I compile lsof?
16.2 SCO|Caldera UnixWare Problems
16.2.1 Why doesn't lsof compile on my UnixWare 7.1.1 or above system?
16.2.2 Why does lsof complain about node_self() on my UnixWare 7.1.1 or above system?
16.2.3 Why does UnixWare 7.1.1 or above complain about -lcluster, node_self(), or libcluster.so?
16.2.4 Why does UnixWare 7.1.1 or above lsof complain it can't read the kernel name list?
16.2.5 Why doesn't lsof report link count, node number, and size for some UnixWare 7.1.1 or above CFS files?
16.2.6 Why doesn't lsof report open files on all UnixWare 7.1.1 NonStop Cluster (NSC) nodes?
16.2.7 Why doesn't lsof report the UnixWare 7.1.1 NonStop Cluster (NSC) node a process is using?
16.2.8 Why does the compiler complain about missing UnixWare 2.1[.x] header files?

17.0 Sun Problems
17.0.5 Statement of deprecation
17.1 My Sun gcc-compiled lsof doesn't work -- why?
17.2 How can I make lsof compile with gcc under Solaris 2.[456], 2.5.1, 7, 8 or 9?
17.3 Why does Solaris Sun C complain about system header files?
17.4 Why doesn't lsof work under my Solaris 2.4 system?
17.5 Where are the Solaris header files?
17.6 Where is the Solaris /usr/src/uts/<architecture>/sys/machparam.h?
17.7 Why does Solaris lsof say ``can't read proc table''?
17.8 Why does Solaris lsof complain about a bad cached clone device?
17.9 Why doesn't Solaris make generate .o files?
17.10 Why does lsof report some Solaris 2.3 and 2.4 lock types as `N'?
17.11 Why does lsof Configure say "WARNING: no cc in ..."?
17.12 Solaris 7, 8 and 9 Problems
17.12.1 Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?
17.12.2 Why does Solaris 7, 8 or 9 lsof say "FATAL: lsof was compiled for..."?
17.12.3 How do I build lsof for a 64 bit Solaris kernel under a 32 bit Solaris kernel?
17.12.4 How do I install lsof for Solaris 7, 8 or 9?
17.12.5 Why does my Solaris 7, 8 or 9 system say it cannot execute lsof?
17.12.6 What gcc will produce 64 bit Solaris 7, 8 and 9 executables?

17.12.7 Why does lsof on my Solaris 7, 8 or 9 system say, "can't read namelist from /dev/ksyms?"
17.13 Solaris and COMMON
17.13.1 What does COMMON mean in the NAME column for a Solaris VCHR file?
17.13.2 Why does a COMMON Solaris VCHR file sometimes seem to have an incorrect minor device number?
17.14 Why don't lsof and Solaris pfiles reports always match?
17.15 Why does lsof say, "kvm_open(namelist=default, core=default): Permission denied?"
17.16 Why is lsof slow on my busy Solaris UFS file system?
17.17 Why is lsof so slow on my Solaris 8 or 9 system?
17.18 Solaris and VxFS
17.18.1 Why doesn't lsof support VxFS 3.4 on Solaris 2.6, and above?
17.18.2 Why does lsof report "vx_inode: vxfsu_get_ioffsets error" for open Solaris 2.6 and above VxFS 3.4 and above files?
17.18.3 Why does Solaris Configure claim there is no VxFS library?
17.18.4 Why doesn't Solaris lsof report VxFS path name components?
17.18.5 Why does Solaris 10 lsof report scrambled VxFS paths?
17.19 Large file problems
17.19.1 Why does lsof complain it can't stat(2) a Solaris 2.5.1 large file?
17.20 Why does lsof get a segmentation fault on 64 bit Solaris 8 using NIS+?
17.21 Will lsof crash the Solaris kernel?
17.22 Why does lsof on Solaris 7, 8, or 9 report a kvm_open() failure?
17.23 Solaris and SAM-FS
17.23.1 Why does Solaris lsof report "(limited SAM-FS info)"?
17.23.2 Why can't lsof locate named SAM-FS files?
17.24 Lsof and Solaris 10 zones
17.24.1 How can I make lsof list the Solaris zone?
17.24.2 Why doesn't lsof work in a Solaris 10 zone?
17.24.3 Why does lsof complain it can't stat() Solaris 10 zone file systems?
17.25 Solaris 10 problems
17.25.1 Why does Solaris 10 lsof sometimes report the wrong path name?
17.25.2 Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?
17.25.3 What does "(deleted)" mean in the NAME column of a Solaris 10 open file?
17.25.4 What does "(?)" mean in the NAME column of a Solaris 10 open file?
17.26 Solaris contract file problems
17.26.1 Why doesn't lsof report size, link count and node number for Solaris 10 contract files?

17.26.2 Why can't lsof locate a Solaris 10 contract file by path name?
17.27 Solaris 10 and above ZFS probblems
17.27.1 Why does Configure warn that ZFS support is not enabled?
17.28 Problems
with Solaris 9 and above
17.28.1 Why does the compiler complain about lgrp_root on Solaris 9
and above?

18.0 Lsof Features
18.1 Why doesn't lsof doesn't report on /proc entries on my
system?
18.2 How do I disable the device cache file feature or alter
it's behavior?
18.2.1 What's the risk with a perverted device cache file?
18.2.2 How do I put the full host name in a personal device cache file
path?
18.2.3 How do I put the personal device cache file in /tmp?
18.3 Why doesn't lsof know about AFS files on my favorite dialect?
18.3.1 Why doesn't lsof report node numbers for all AFS volume files,
or how do I reveal dynamic module addresses to lsof?

1.0 General Concepts

1.1 Lsof -- what is it?

Lsof is a UNIX-specific tool. Its name stands for LiSt
Open Files, and it does just that. It lists information
about files that are open by the processes running on a
UNIX system.

See the lsof man
page, the 00DIST file, the 00QUICKSTART
file, and the 00README file of the lsof distribution for
more information.

1.2 Where do I get lsof?

Lsof is available via anonymous ftp from lsof.itap.purdue.edu.
Look in the pub/tools/unix/lsof sub-directory.

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

Bzip2'd, compressed and gzip'd tar files with GPG certificates
are available.

1.2.1 Are there mirror sites?

On March 21, 2013 these sites appeared to have the lastest
lsof revision:

ftp://ftp.fu-berlin.de/pub/unix/tools/lsof
ftp://sunsite.ualberta.ca/pub/Mirror/lsof
http://www.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
ftp://ftp.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
rsync://rsync.mirrorservice.org/lsof.itap.purdue.edu/pub/tools/unix/lsof/

1.2.2 Are lsof executables available?

Some lsof executables are available in the subdirectory
tree pub/tools/unix/lsof/binaries These are neither guaranteed
to be current nor cover
every dialect and machine architecture.

I don't recommend you use pre-compiled lsof binaries; I
recommend you obtain the sources and build your own binary.
Even if you're a Sun user without a Sun C compiler, you
can use gcc to compile lsof.

If you must use a binary file, please be conscious of the
security and configuration implications in using an executable
of unknown or different origin. The lsof binaries are
accompanied by GPG certificates. Please use them!

Three additional cautions apply to executables:

1. Don't try to use an lsof executable, compiled for one
   version of a UNIX dialect, on another. Patches can
   make the dialect version different.

2. If you want to use an lsof binary on multiple systems,
   they must be running the same dialect OS version and
   have the same patches and feature support.

1.2.3 How do I check the validity of an lsof distribution?

There are two ways to check the validity of an lsof
distribution:

1. Follow the
instructions in the CHECKSUMS_<revision>
   file found with the lsof distribution.

   Checking with GPG is the best method.

2. Follow the instructions in the "Security" section of the README.lsof_<revision> file found inside the lsof distribution.

   Again, checking with GPG is the best method.

1.2.4 Why can't I get the sum(1) result reported in README.lsof_<revision>?

The "Security" section of the README.lsof_<revision> file found inside the lsof distribution gives md5, sum, and GPG certificate information.

The simplest, the sum(1) signature, seems to be the trickiest. That's because there are different sum(1) methods, BSD systems usually have cksum(1) instead of sum(1), and different systems compute the block size value differently.

First, the lsof sum results are computed with the old, "alternate" algorithm. On newer systems, you can use sum's "-r" option to get that computation result.

Second, on BSD systems you usually must use cksum(1) instead of
sum(1), because they have no sum(1). To tell cksum(1) to use the old, "alternate" algorithm, use its "-o1" option.

Third, the second value that sum reports, the block count, may be computed differently on different systems -- usually block size is considered to be 512 or 1,024. The lsof block counts were computed on a system with a sum(1) option that considers block size to be 512. The BSD system cksum(1) -o1 option considers block size to be 1,024. If your sum(1) or cksum(1) doesn't report a block count that matches the sum(1) signature given in README.lsof_<revision>, check its man page to see what block size it uses, then adjust its reported block count appropriately.

1.2.5 Why won't gpg accept the lsof-signing PGP public key?

An older PGP key that once signed lsof distributions is included in lsof revisions prior to 4.70. The PGP key is indeed my key, but is incompatible with GPG. It was created about ten years ago and is still acceptable to PGP versions 2.6.2
through 6.5.2.

Lsof revisions 4.70 and above are signed with a copy of my PGP

key that has been made acceptable for use with GPG by importing
it under GPG's "--allow-non-selfsigned-uid" option.

You can find my GPG compatible key in lsof revisions 4.70 and
above and at:

    ftp://lsof.itap.purdue.edu/pub/Victor_A_Abell.gpg

If you have an older lsof revision with my PGP key, there are
two possible ways to use it:

* Use it with a PGP version from 2.6.2 through 6.5.2.

* Use GPG's "--allow-non-selfsigned-uid" option when you
  import my PGP key into your GPG key ring.

  $ gpg --allow-non-selfsigned-uid --import Victor_A_Abell.pgp

1.3 Where can I get more lsof documentation?

A significant set of documentation may be found in the lsof
distribution (See "Where can I get lsof?). There is a
manual page, copious documentation in files whose names
begin with 00, and a copy of this FAQ in the file 00FAQ
(perhaps slightly less recent than this file if you're
reading
it via a web browser.)

Two URLs provide some documentation that appears in the
lsof distribution:

FAQ: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

man page: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

1.4 How do I report an lsof bug?

If you believe you have discovered a bug in lsof, you can
report it via e-mail to <abe@purdue.edu>. Do NOT report lsof
bugs to the UNIX dialect vendor. Make sure "lsof" appears in
the "Subject:" line so my e-mail filter won't classify your
letter as Spam.

Before you send me a bug report, please read the "Bug Reports"
section of the 00README file of the lsof distribution. It
lists the steps you should take before and when reporting a
suspected bug.

1.5 Where can I get the lsof FAQ?

This lsof FAQ is available in the file 00FAQ in the lsof distribution and at the URL:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

1.5.1 How timely is the on-line FAQ?

The on-line FAQ is sometimes too timely. :-)

I
update it as soon as new information is available. That may include information about support that won't appear in the lsof source distribution until the next revision. If you encounter something like that, please send me e-mail at <abe@purdue.edu>. I may be able to point you at a pre-release distribution that contains the support of interest. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

1.6 Is there a test suite?

Yes, as of lsof revision 4.63 there's an automated lsof test suite in the tests/ sub-directory of the lsof top-level directory.

More information on using the test suite, what it does, how to use it and how to configure it may be found in the 00TEST file of the lsof distribution. That file also explains where the test suite has been tested.

Frequently asked questions about the test suite will be asked and answered here in the FAQ. (See "Test Suite Problems.")

After lsof has been configured
with the Configure script,
lsof can be made and tested with:

```
$ make
$ cd tests
$ make
```

Under normal conditions -- i.e., unless the lsof tree has been cleaned or purged severely -- all tests or individual tests may be run by:

```
$ cd test
```

```
   $ make
or
   $ <run a single test> (See 00TEST.)
```

1.7 Is lsof vulnerable to the standard I/O descriptor attack?

Lsof revisions 4.63 and above are not vulnerable.

Lsof revisions 4.62 and below are vulnerable, but no damage scenarios have so far been demonstrated.

The standard I/O descriptor attack is a local programmed assault on setuid and setgid programs that tricks them into opening a sensitive file with write access on a standard descriptor, usually stderr (2), and writing error messages to stderr. If the attacker can control the content of the error message, the attacker may gain elevated privileges.

The attack was first described in Pine Internet Advisory PINE-CERT-20020401, available at:

http://www.pine.nl/advisories/pine-cert-20020401.txt

If you are using an lsof revision below 4.63, you should remove any setuid or setgid permissions you might have given its executable. Then you should upgrade to lsof revision 4.63.

1.8 Can I alter lsof's make(1) behavior?

Yes. There are at least two ways to do that.

You can put replacements for lsof Makefile strings in your environment. If you specify the -e make option, make will give environment variable values precedence over strings from the Makefile. For example, to change the compiler string CC from the environment, you might do this with the Bourne shell:

```
   $ CC=foobar; export CC
   $ make -e
```

You can also replace lsof Makefile strings in the make command invocation. Here's the previous example done that way:

```
   $ make CC=foobar
```

Changing the CFGF, CFGL, and DEBUG strings used in lsof
Makefiles, either from the environment or from the make
invocation, can significantly alter lsof make(1) behavior.
I
commonly use DEBUG to change the -O option to -g so I
can build an lsof executable for debugging -- e.g.,

```
$ make DEBUG=-g
```

(Look for DEBUG in this FAQ for other examples of its use.)

Consult the Makefiles to see what CFGL, CFGL, and other
lsof Makefile strings contain, and to see what influence
their alteration might have on lsof make(1) behavior.

1.9 Is there an lsof license?

No.

The only restriction on the use or redistribution of lsof
is contained in this copyright statement, found in every
lsof source file. (The copyright year in or format of the
notice may vary slightly.)

```
/*
 * Copyright 2002 Purdue Research Foundation, West Lafayette,
 * Indiana 47907.  All rights reserved.
 *
 * Written by Victor A. Abell
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
 * University of California.
 *
 * Permission is granted to anyone to use this software for
 * any purpose on
any computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
 *
 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
```

```
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

1.10 Language locale support

1.10.1 Does lsof support language locales? How do I use the support?

Most UNIX dialect versions of lsof support 8 bit language locale characters -- e.g., the ability to print 8 bit characters that have accents and other marks over them.

See the answer to the "Does lsof support wide characters in language locales?" question for information on when lsof's language locale support covers characters wider than 8 bits.

To see if lsof supports language locales for your dialect, look in the dialect's machine.h header file for the HASSETLOCALE definition. If it is present and not disabled, then lsof has language locale support for the dialect.

To enable lsof's language locale support, you must specify in a locale environment variable (e.g., LANG) a language locale known to your system that supports the printing of marked characters -- e.g, en_US. (On some dialects locale(1) may be used to list the known language locales.)

Note that LANG=C and LANG=POSIX are NOT language locales that support the printing of marked characters.

If the language locale doesn't support the printing of marked characters, lsof's OUTPUT of them follows the rules for non-printable characters described in the OUTPUT section of lsof(8).

Consult your dialect's setlocale(3) man page for the names of environment variables other than LANG -- e.g., LC_ALL, LC_TYPE, etc. -- which may be used to define language locales.

1.10.2 Does lsof support wide characters in language locales?

When lsof's language locale support is enabled with the HASSETLOCALE definition, for selected dialects lsof will also

print wide characters (e.g., from UTF-8) when iswprint(3)
reports them to be printable.

Wide character support is available when HASWIDECHAR is defined
in a dialect's machine.h header file. As of this writing on
July 22, 2004, the following dialect versions have wide character
support:

AIX >= 4.3.2
Apple Darwin >= 7.3.0
FreeBSD >= 5.2
HP-UX >= 11.00
/proc-based Linux
NetBSD >= 1.6
SCO OpenServer >= 5.0.6
Solaris >= 2.6
Tru64 UNIX 5.1

1.11 Are any files in the lsof distribution copyrighted?

Yes. Most files carry the copyright of the Purdue Research
Foundation and may be redistributed under the terms that
accompany the copyright notice. Those
terms may also be found
in the answer to the question, "Is there an lsof license?")

A few files carry other copyright notices. Some are BSD
notices and they explain the terms under which they are
included in the lsof distribution.

Those that carry vendor copyright notices have been reproduced
in their original or modified forms with permission from the
copyright owners. That permission is indicated in the README
files that accompany the files.

1.12 Are there other lsof-related resources?

There are other resources available, connected to lsof. Among
them are FreeBSD and Linux packages whose products use lsof and
two particularly interesting resources.

The two interesting resources are a Gnome Tool Kit (GTK) GUI
for lsof and a Perl wrapper module.

The GTK GUI is called Glsof and was developed by Gnele. It can
be found at:

http://www.sourceforge.net

The Perl wrapper module by Marc Beyer can be found at:

    http://search.cpan.org/dist/Unix-Lsof/

1.13 What
does the "WARNING: unsupported dialect or version" mean?

The lsof configure script issues that message for UNIX dialects
or their versions where I have been unable to test the current
revision of lsof. The message doesn't mean that lsof won't
work, just that I have no direct evidence that it will.

If the COnfigure script succeeds, except for the warning, try
compiling) lsof. If that succeeds, try the lsof test suite.

2.0 Lsof Ports

2.1 What ports exist?

The pub/lsof.README file carries the latest port information:

    AIX 5.[23] and 5.3
    FreeBSD 4.9 and 6.4 for x86-based systems
    FreeBSD 8.[234], 9.0, 10.0 and 11.0 for AMD64-based systems
    Linux 2.1.72 and above for x86-based systems
    Solaris 9, 10 and 11

In the above list the only UNIX dialects present are ones for
which I test the current lsof revision. Lsof may still support
unlisted dialect versions -- e.g., HP-UX 10.20, Solaris 7, etc.
-- but I don't have access to systems where I could
test lsof
on them, so I can't claim lsof works on them. If your dialect
isn't in the list, you should try building lsof on it anyway.

Lsof version 4 predecessors, versions 2 and 3, may support older
version of some dialects. Contact me via e-mail at <abe@purdue.edu>
if you're interested in their distributions. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't classify
your letter as Spam.

2.2 What about a new port?

The 00PORTING file in the distribution gives hints on doing
a port. I will consider doing a port in exchange for
permanent access to a test host. I require permanent access
so I can test new lsof revisions, because I will not offer

distributions of dialect ports I cannot upgrade and test.

2.2.1 User-contributed Ports

Sometimes I receive contributions of ports of lsof to systems where I can't test future revisions of lsof. Hence, I don't incorporate these contributions into my lsof distribution.

However, I do make descriptions of these contributions available. You can find them in the 00INDEX and README files at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Consult the 00INDEX file in the contrib/ directory for a list of the available contributions and consult README there for information on how to obtain them.

2.3 Why isn't there an AT&T SVR4 port?

I haven't produced an AT&T SVR4 port because I haven't seen a UNIX dialect that is strictly limited to the AT&T System V, Release 4 source code. Every one I have seen is a derivative with vendor additions.

The vendor additions are significant to lsof because they affect the internal kernel structures with which lsof does business. While some vendor derivatives of SVR4 are similar, each one I have encounted so far has been different enough from its siblings to require special source code.

If you're interested in an SVR4 version of lsof, here are some existing ports you might consider:

DC/OSx (This obsolete port is only available upon special request.)
Reliant UNIX (This obsolete port is only available upon special request.)
SCO|Caldera UnixWare (This is the most likely choice.)
Solaris

2.4 Why isn't there an SGI IRIX port?

Lsof support for IRIX was terminated at lsof revision 4.36, because it had become increasingly difficult for me to

obtain information on the IRIX kernel structures lsof needs
to access.

At IRIX 6.5 I decided the obstacles were too large for me
to overcome, and I stopped supporting lsof on IRIX. I have
sources to the last revision of lsof (4.36) for IRIX, but
that version of lsof does not work on IRIX 6.5 and is
vulnerable to the standard I/O descriptor attack. (See
the "Is lsof vulnerable to the standard I/O descriptor
attack?" Q&A for more information.) Contact me to discuss
obtaining those sources.

If you wish to pursue the issue, don't contact me, contact
SGI. This case was opened with SGI on the subject:

Case ID: 0982584

Category: Unix
Priority: 30-Moderate Impact

Problem Summary:
kernel structure header files needed for continued lsof
support

Problem Description:
Email In 07/17/98 19:09:23

2.5 Why does lsof's Configure script report "WARNING: unsupported
dialect or version"?

Lsof's Configure script issues this message when it encounters
a dialect or its version that lsof once supported, but no
longer does. Usually I drop support for a dialect or version
when I can no longer test lsof on it.

However, it's worth trying to compile and use lsof. Be sure to
run the test suite. (See the answer to the "Is there a test
suite? question for information on the test suite.)

If you have problems with an unsupported dialect or version,
contact me via e-mail at <abe@purdue.edu> and I may be able to help.
Make sure "lsof" appears in the "Subject:" line so my e-mail filter
won't classify your letter as Spam.

3.0 Lsof Problems

3.1 Configuration Problems

3.1.1 Why
can't Configure determine the UNIX dialect version?

The lsof Configure script uses UNIX shell commands, often in a command pipeline, to determine the UNIX dialect version. (Consult the dialect stanza in Configure to determine which commands are used.) If Configure can't determine the dialect version, probably one of the commands is not behaving as Configure expects.

Symptoms of the failure include Configure warning messages and incorrect version definitions in the Makefile CFLAGS.

If you suspect that the lsof Configure script is failing to determine the dialect version correctly, try running the commands from Configure stanza one at a time. That will usually reveal the source of the problem. Be particularly mindful that the PATH environment variable can cause commands to be executed from non-standard directories.

If you can't determine the source of the problem, there is a work-around. You can supply the UNIX dialect version in the LSOF_VSTR environment
variable. Use Configure as a guide to
forming what it expects in LSOF_VSTR. There is also some information on LSOF_VSTR in the 00XCONFIG documentation file of the lsof distribution.

3.2 Compilation Problems

3.2.1 Why does the compiler complain about missing header files?

When you use make to build lsof, the compiler may complain that it can't find header files -- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-DAIXA=0 -DAIXV=4330 \
-DLSOF_VSTR=\"4.3.3.0\"")
gcc  -DAIXA=0 -DAIXV=4330 -DLSOF_VSTR="4.3.3.0" -O \
-c ckkv.c
In file included from ckkv.c:33: ../machine.h:70: \
sys/types.h: A file or directory in the path name \
does not exist. \
```

That type of complaint doesn't represent an lsof problem. It represents a problem with a missing system header file that probably should be found in /usr/include or in the

system source tree.

As a first step try using find(1) to locate the problem header file.

If it's a system header file and can't be found, here are some possible causes:

1. The file set, RPM or package containing the header files has not been installed. Instructions for doing that are specific to the UNIX dialect and beyond the scope of this document.

2. If the compiler is gcc, the private gcc header files:

* May not have been installed;

* May have been installed incorrectly;

* May not have been updated properly after the last compiler or system update;

* Ones from a previous installation may not have been removed.

A path leading to the gcc private header files can be found with `gcc -v`. Consult the gcc documentation for instructions on proper installation of the private gcc header files.

3. On some dialects -- e.g., FreeBSD, NetBSD, OpenBSD -- lsof may need to use header files that are located in the system source tree -- /sys or /usr/src/sys, for example. Make sure the system source tree has been installed.

3.2.2 Why does gcc complain about the contents of header files distributed by the system's vendor?

When you use make to build lsof and gcc to compile it, gcc may complain that it finds errors in system header files -- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-Dsolaris=80000 \
 -DHASPR_GWINDOWS -m64 -DHASIPv6 -DHAS_VSOCK \
 -DLSOF_VSTR=\"5.8\"")
 gcc -Dsolaris=80000  -DHASPR_GWINDOWS -m64 -DHASIPv6 \
```

```
    -DHAS_VSOCK -DLSOF_VSTR="5.8"  -O  -c  dvch.c
   In file included from /usr/include/sys/proc.h:31, \
         from /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/ \
    3.2.1/include/sys/user.h:267, from /usr/include/kvm.h:13, \
    from ../dlsof.h:53, from ../lsof.h:172, from dvch.c:43: \
    /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/\
     3.2.1/include/sys/task.h:59: parse error before "uint_t"
```

Errors like the above are most likely not problems in the system's
header files, but in the private copies of them
that were created when gcc was made or installed. Note the presense of
".../gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/3.2.1/include/..."
in the paths for user.h and task.h. It indicates both
header files are gcc-specific.

To solve errors like this requires comparing the header
files in the vendor's /usr/include tree to the gcc-specific
ones in gcc's private gcc-lib/.../include tree. It may be
necessary to regenerate gcc-specific header files, correct
them or remove them. See the gcc distribution for the
appropriate tools.

A possible temporary work-around is to direct gcc to use
the vendor's header files instead of its temporary ones by
declaring -I/usr/include in the compilation flags.

3.2.3 Other header file problems

Don't overlook any vendor tools that might validate the
vendor header files installed on the system -- e.g., the
Solaris pkgchk tool can be used to check the header files
that were installed
from the SUNWhea package.

For other header file problems contact me at <abe@purdue.edu>.
Please follow the reporting guidelines in the "How do I
report an lsof bug?" section of this FAQ.

3.3 Why doesn't lsof report full path names?

Lsof reports the full path name when it is specified as a
search argument for open files that match the argument.
However, if the argument is a file system mounted-on
directory, and lsof finds additional path name components
from the kernel name cache, it will report them.

Lsof reports path name for file system types that have path name lookup features -- e.g., some versions of AdvFS for Digital and Tru64 UNIX. The Linux /proc-based lsof reports full path names, because the Linux /proc file system provides them. Lsof on recent builds of Solaris 10 also report full path names, because those Solaris kernels record the full path name in the vnode structure.

Otherwise, lsof uses the kernel name cache, where it exists and can be accessed,
and reports some or all path name
components (e.g., the sys and proc.h components of /usr/include/sys/proc.h) for these dialects:

Apple Darwin
DC/OSx
FreeBSD
HP-UX, /dev/kmem and PSTAT based
Linux, /dev/kmem-based
NetBSD
NEXTSTEP
OpenBSD
OPENSTEP
Reliant UNIX
SCO OpenServer
SCO|Caldera UnixWare
Solaris 2.x, 7, 8 and 9 (except for some VxFS versions;
see the "Why doesn't Solaris
lsof report VxFS path name
components?" section for more
information)
Solaris 10 (early builds) Tru64 UNIX

As far as I can determine, AFS path lookups don't share in kernel name cache operations, so lsof can't identify open AFS path name components. Apparently Solaris VxFS versions 4 and above don't share in kernel name cache operations, either, so lsof can't display path name components for those open files.

Since the size of the kernel name cache is limited and the cache is in constant flux, it does not always contain the names of all components
in an open file's path; sometimes it contains
none of them.

Lsof reports the file system directory name and whatever components of the file's path it finds in the cache, starting with the last component and working backwards through the

directories that contain it. If lsof finds no path
components, lsof reports the file system device name instead.

When lsof does report some path components in the NAME
column, it prefixes them with the file system directory
name, followed by " -- ", followed by the components --
e.g., /usr -- sys/path.h for /usr/include/sys/path.h. The
" -- " is omitted when lsof finds all the path name components
of a file's name.

The PSTAT-based HP-UX lsof relies on kernel name cache
contents, too, even though its information comes to lsof
via pstat() function calls. Consequently, PSTAT-based
HP-UX lsof won't always report full paths, but may use the
" -- " partial path name notation, or may occasionally
report no path name at all but just
the file system mounted-on
directory and device names.

Lsof can't obtain path name components from the kernel name
caches of the following dialects:

    AIX

Only the Linux kernel records full path names in the
structures it maintains about open files; instead, most
kernels convert path names to device and node number doublets
and use them for subsequent file references once files have
been opened.

To convert the device and node number doublet into a
complete path name, lsof would have to start at the root
node (root directory) of the file system on which the node
resides, and search every branch for the node, building
possible path names along the way. That would be a time
consuming operation and require access to the raw disk
device (usually implying setuid-root permission).

If the prospect of all that local disk activity doesn't
concern you, think about the cost when the device is
NFS-mounted.

Try using the file system mount point and node number lsof
reports
as parameters to find -- e.g.,

    $ find <mount_point> -inum <node_number> -print

and you may get an appreciation of what a file system
directory tree search would cost.

3.3.1 Why do lsof -r reports show different path names?

When you run lsof with its repeat (``-r'') option, you may
notice that the extent to which it reports path names for
the same files may vary from cycle to cycle. That happens
because other processes are making kernel calls affecting
the cache and causing entries to be removed from and added
to it.

3.3.2 Why does lsof report the wrong path names?

Under some circumstances lsof may report an incorrect path
name component, especially for files in a rapidly changing
directory like /tmp.

In a rapidly changing directory, like /tmp, if the kernel
doesn't clear the cache entry when it removes a file, a
new file may be given the same keys and lead lsof to believe
that the old cache entry with the same keys belongs to the
new file.

Lsof tries
to avoid this error by purging duplicate entries
from its copy of the kernel name cache when they have the
same device and inode number, but different names.

This error is less likely to occur in UNIX dialects where the
keys to the name cache are node address and possibly a
capability ID. The Apple Darwin, Digital UNIX, FreeBSD, HP-UX,
NEXTSTEP, OPENSTEP, Solaris, Tru64 UNIX, and UnixWare dialects
use node address. Apple Darwin, FreeBSD, NetBSD, OpenBSD,
Tru64 UNIX, and also use a capability ID to further identify
name cache entries.

3.3.3 Why doesn't lsof report path names for unlinked (rm'd) files?

When lsof gets path name components from the kernel's name
cache, it does not report the path names of a file that has
been unlinked from its parent directory -- e.g., deleted via
rm, or the unlink() system call -- even when some process may
still hold the file open; lsof reports only the file system's
mounted-on directory and device. That's because path name
components
are removed from the kernel name cache when the file
is unlinked.

Unlinked open files are sometimes used by applications for temporary, but invisible storage (i.e., ls won't show them, and no other process can open them.) However, they may occasionally consume disk space to excess and cause concern for a system administrator, who will be unable to locate them with find, ls, du, or other tools that rely on finding files by examining the directory tree.

By using lsof's +L option you can see the link count of open files -- in the NLINK column. An unlinked file will have an NLINK value of zero. By using the option +L1 you can tell lsof to display only files whose link count is less than one (i.e., zero).

There are some UNIX dialect-specific exceptions to lsof's inability to report unlinked path names. They are described in the answer to the "When will lsof report path names for deleted files?" question.

3.3.4 Why doesn't lsof report the "correct" hard linked file path
name?

When lsof reports a rightmost path name component for a file with hard links, the component may come from the kernel's name cache. Since the key which connects an open file to the kernel name cache may be the same for each differently named hard link, lsof may report only one name for all open hard-linked files. Sometimes that will be "correct" in the eye of the beholder; sometimes it will not. Remember, the file identification keys significant to the kernel are the device and node numbers, and they're the same for all the hard linked names.

3.3.5 When will lsof report path names for deleted files?

Lsof will report path names for deleted files for two dialects: Linux and later builds of Solaris 10.

Deleted Linux path names are reported by default and have "(deleted)" at their ends.

The display of Solaris 10 deleted path names may be selected with the -X option. When selected they are also reported with "(deleted)" at their ends.

3.4 Why is lsof

so slow?

Lsof may appear to be slow if network address to host name resolution is slow. This can happen, for example, when the name server is unreachable, or when a Solaris PPP cache daemon is malfunctioning.

To see if name lookup is causing lsof to be slow, turn it off with the ``-n" option.

Port service name lookup or portmap registration lookup may also be causes of slow-down. To suppress port service name lookup, specify the ``-P" option.

Lsof doesn't usually make direct portmap calls -- only when +M is specified, or when HASPMAPENABLED is defined during lsof construction. (The lsof help panel, produced with `lsof -h` will display the default portmap registration reporting state.) The quickest first step in checking if lsof is slow because of the portmapper is to use lsof's ``-M" option.

Lsof may be slow if UID to login name lookups are slow. Suppress them with ``-l".

On dialects where lsof uses the kernel name cache, try disabling its use with ``-C".
(You can tell if lsof uses the kernel name cache by looking for ``-C" in lsof's ``-h" output.) Of course, disabling kernel name cache use will mean that lsof won't report full or partial path names, just file system and character device names.

If you're just interested in the open files of one process, try using the ``-p <Process-ID>" option to limit lsof to that process. (The ``-p" option may also be followed with a list of Process-IDs.)

If you're interested in including or excluding certain commands, try lsof's "-c[^]cmd" option.

If you're interested in certain Internet TCP and UDP states (e.g., ESTABLISHED) or in excluding some (e.g., CLOSE_WAIT), try lsof's "-s p:s" option, available where shown on the lsof help output, obtained with -h or -?. More information on it may be found in the answer to the "How are protocol state name exclusion and inclusion used?" question.

Your UNIX dialect may not support "-s p:s" and its associated

performance improvments
to Internet-only file processing. You
can find more information on those topics in the answer to the
"Why doesn't my dialect support state name exclusion and
inclusion?" question.

Older AIX lsof may be slow to start because of its oslevel
identity comparison. (Newer AIX lsof uses uname(2).) See the
"Why does AIX lsof start so slowly?" and "Why does lsof warn
"compiled for x ... y; this is z.?" sections for more
information.

3.5 Why doesn't lsof's setgid or setuid permission work?

If you install lsof on an NFS file system that has been
mounted with the nosuid option, lsof may not be able to
use the setgid or setuid permission you give it, complaining
it can't open the kernel memory device -- e.g., /dev/kmem.

The only solution is to install lsof on a file system that
doesn't inhibit setgid or setuid permission.

3.6 Does lsof have security problems?

I don't think so. However, lsof does usually start with
setgid permission, and sometimes with setuid-root permission.
Any
program that has setgid or setuid-root permission,
should always be regarded with suspicion.

Lsof drops setgid power, holding it only while it opens
access to kernel memory devices (e.g., /dev/kmem, /dev/mem,
/dev/swap). That allows lsof to bypass the weaker security
of access(2) in favor of the stronger checks the kernel
makes when it examines the right of the lsof process to
open files declared with -k and -m. Lsof also restricts
some device cache file naming options when it senses the
process has setuid-root power.

On a few dialects lsof requires setuid-root permission
during its full execution in order to access files in the
/proc file system. These dialects include:

    DC/OSx 1.1 for Pyramid systems
    Reliant UNIX 5.4[34] for Pyramid systems

When lsof runs with setuid-root permission it severely
restricts all file accesses it might be asked to make with

its options.

The device cache file (typically .lsof_hostname in the home directory
of the real user ID that executes lsof) has 0600
modes. (The suffix, hostname, is the first component of
the host's name returned by gethostname(2).) However, even
when lsof runs setuid-root, it makes sure the file's
ownerships are changed to that of the real user and group.
In addition, lsof checks the file carefully before using
it (See the question "How do I disable the device cache
file feature or alter it's behavior?" for a description of
the checks.); discards the file if it fails the scrutiny;
complains about the condition of the file; then rebuilds
the file.

See the 00DCACHE file of the lsof distribution for more
information about device cache file handling and the risks
associated with the file.

3.7 Will lsof show remote hosts using files via NFS?

No. Remember, lsof displays open files for the processes
of the host on which it runs. If the host on which lsof
is running is an NFS server, the remote NFS client processes
that are accessing files on the server
leave no process
records on the server for lsof to examine.

3.8 Why doesn't lsof report locks held on NFS files?

Generally lock information held by local processes on remote
NFS files is not recorded by the UNIX dialect kernel. Hence,
lsof can't report it.

One exception is some patch levels of Solaris 2.3, and all
versions of Solaris 2.4 and above. Lsof for those dialects
does report on locks held by local processes on remotely
mounted NFS files.

3.8.1 Why does lsof report a one byte lock on byte zero as a full
file lock?

When a process has a lock of length one, starting at byte
zero, lsof can't distinguish it from a full file lock.
That's because most UNIX dialects represent both locks the
same way in their file lock (flock or eflock) structures.

3.9 Why does lsof report different values for open files on the same file system (the automounter phenomenon)?

On UNIX dialects where file systems may be mounted by an automounter with the ``direct'' type, lsof may sometimes report difference DEVICE, SIZE/OFF, INODE and NAME values when asked to report files open on the file system.

This happens because some files open on the file system -- e.g., the current directory of a shell that changed its directory to the file system as the file system's first reference -- may be characterized in the kernel with temporary automounter node information. The cd doesn't cause the file system to be mounted.

A subsequent reference to the file system -- e.g., an ls of any place in it -- will cause the file system to be mounted. Processes with files open to the mounted file system are characterized in the kernel with data that reflects the mounted file system's parameters.

Unfortunately some kernels (e.g., some versions of Solaris 2.x) don't revisit the process that did only a change-directory for the purpose of updating the data associated with the open directory file. The file continues to be characterized with temporary automounter information until it does another directory change, even a trivial ``cd .''.

Lsof will report on both reference types, when supplied the file system name as an argument, but the data lsof reports will reflect what it finds in the kernel. For the different types lsof will display different data, including different major and minor device numbers in the DEVICE column, different lengths in the SIZE/OFF column, different node numbers in the INODE column, and slightly different file system names in the NAME column.

In contrast, fuser, where available, can only report on one reference type when supplied the file system name as an argument. Usually it will report on the one that is associated with the mounted file system information. If the only reference type is the temporary automounter one, fuser will often be silent about it.

3.10 Why don't lsof and netstat output match?

Lsof and netstat output don't match because lsof reports
the network information it finds in open
file system objects
-- e.g., socket files -- while netstat often gets its
information from separate kernel tables.

The information available to netstat may describe network
activities never or no longer associated with open files,
but necessary for proper network state machine operation.

For example, a TCP connection in the FIN_WAIT_[12] state
may no longer have an associated open file, because the
connection has been closed at the application layer and is
now being closed at the TCP/IP protocol layer.

3.10.1 Why can't lsof find accesses to some TCP and UDP ports?

Lsof stands for LiSt Open Files. If there is no open file
connected to a TCP or UDP port, lsof won't find it. That's
the most common reason why lsof doesn't find a port netstat
might report open.

One reason I've found on some UNIX dialects is that their
kernels set aside TCP and UDP ports for communicating with
support activities, running in application layer servers
-- the automounter daemons, and the
NFS biod and nfsd
daemons are examples. Netstat may report the ports are in
use, but lsof doesn't.

Another reason is that netstat may also be able to report
a port is open on a particular dialect, because it uses a
source of data different from what lsof uses -- e.g.,
netstat might examine kernel tables or use streams messages
to MIB2, while lsof relies on the information it finds in
open file structures and their descendants.

Sometimes it's possible to search the data netstat and lsof
use. For example, on Linux /proc/tcp and /proc/udp can be
examined. There might an entry there for a particular
protocol and port, but if the line on which the port appears
doesn't have an inode number that matches an inode number
of an open file, lsof won't be able to identify the process
using the port.

This is a tough question to which there is no easy answer.

3.11 Why does lsof update the device cache file?

At the end of the lsof output you may see the message:

```
    lsof:
WARNING: /Homes/abe/.lsof_vic was updated.
```

In this message /Homes/abe/.lsof_vic is the path to the private device cache file for login abe. (See 00DCACHE.)

Lsof issues this message when it finds it necessary to recheck the system device directory (e.g., /dev or /devices) and rebuild the device cache file during the open file scan. Lsof may need to do these things it finds that a device directory node has changed, or if it cannot find a device in the cache.

3.12 Why doesn't lsof report state for UDP socket files?

Lsof reports UDP TPI connection state -- TS_IDLE (Idle), TS_BOUND (Bound), etc. -- for some, but not all dialects. TPI state is stream-based TCP/IP information that isn't available in many dialects.

A fairly weak general rule is if netstat(1) reports UDP TPI state, lsof may be able to report it, too. But don't be surprised if lsof fails to report UDP TPI state for your dialect. Other factors influence lsof's ability to report UDP TPI state, including the availability of state number data in kernel structures, and state number to state name conversion data.

3.13 I am editing a file with vi; why doesn't lsof find the file?

Classic implementations of vi usually don't keep open the file being edited. (Newer ones may do so in order to maintain an advisory lock.) Instead classic vi opens the file, makes a temporary copy (usually in /tmp or /usr/tmp), and does its work in that file. When you save the file being edited from a classic vi implementation, it reopens and rewrites the file.

During a classic vi session, except for the brief periods when vi is reading or rewriting the file, lsof won't find an open reference to the file from the vi process, because there is none.

3.14 Why doesn't lsof report TCP/TPI window and queue sizes for my dialect?

Lsof only reports TCP/TPI window sizes for Solaris, because only its netstat reports them. The intent of providing TCP/TPI information in lsof NAME column output is to make it
easier to match netstat output to lsof output.

In general lsof only reports queue sizes for both TCP and UDP (TPI) connections on BSD-derived UNIX dialects, where both sets of values appear in kernel socket queue structures. SYSV-derived UNIX dialects whose TCP/IP implementations are based on streams generally provide only TCP queue sizes, not UDP (TPI) ones.

While you may find that netstat on some SYSV-derived UNIX dialects with streams TCP/IP may report UDP (TPI) queue sizes, you will probably also find that the sizes are always zero -- netstat supplies a constant zero for UDP (TPI) queue sizes to make its headers align the same for TCP and UDP (TPI) connections. Solaris seems to get it right -- i.e., its netstat does not report UDP (TPI) queue sizes.

When in doubt, I chose to avoid reporting UDP (TPI) queue sizes for UNIX dialects whose netstat-reported values I knew to be a constant zero or whose origin I couldn't determine. OSR is a dialect in this category.

3.14.1 Why
doesn't lsof report socket options, socket states, and TCP flags and values for my dialect?

The lsof -T argument, 'f', that selects the reporting of socket options, socket states and TCP flags was implemented at lsof revision 4.71 for the following UNIX dialects, providing the indicated information:

AIX 4.3.2 and 5.1 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
Apple Darwin 7.2 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
Digital UNIX and Tru64 UNIX 4.0
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
FreeBSD 4.9 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.

HP-UX 11.00 (/dev/kmem-based lsof)
All socket options and values are reported. No socket states
are reported. Only the TF_NODELAY TCP flag and the TF_MSS value are reported.
HP-UX 11.11 and iiiv2 (PSTAT-based lsof)
All socket options and values, and socket states are reported. No TCP flags or values are reported.
Linux
No socket options and values, socket states, or TCP flags and values are reported. The support for "-Tf" could not be added to Linux, because socket options, socket states, and TCP flags and values are not available via the /proc file system.
NetBSD 1.6G and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
OpenBSD 3.4 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
OPENSTEP 4.2
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
OpenUNIX 8
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
SCO OpenServer Release 5.0.6
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
Solaris 2.6, 8 and above
The socket option display is limited to BROADCAST, DEBUG, DGRAM_ERRIND, DONTROUTE and OOBINLINE. Socket values are limited to KEEPALIVE and LINGER. No socket states are reported. The TCP DELACK, NODELAY and SENTFIN flags are reported. The TCP MSS value is reported.
UnixWare 7.1.[134]
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.

3.14.2 Why doesn't lsof report the partial listen queue connection count for my dialect?

The reporting of partial listen queue connections was added to -Tf processing at lsof revision 4.76. Currently it is reported for these dialects:

AIX 4.3.2
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
AIX 5.1
and above
Partial listen queue information is available.
Apple Darwin 7.2 and above
Partial listen queue information is available.
Digital UNIX 4.0
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
FreeBSD 4.9 and above
Partial listen queue information is available.
HP-UX 11.00 (/dev/kmem-based lsof)
No partial listen queue information is available.
HP-UX 11.11 and iiiv2 (PSTAT-based lsof)
No partial listen queue information is available.
Linux
No partial listen queue information is available.
NetBSD 1.6G and above
Partial listen queue information is available.
OpenBSD 3.4 and above
Partial listen queue information is available.
OPENSTEP 4.2
Partial listen queue information is available.
OpenUNIX 8
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
SCO OpenServer Release 5.0.6
No
partial listen queue information is available.
Solaris 2.6, 8 and above
Partial listen queue information is available.
Tru64 UNIX 5.0
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
Tru64 UNIX 5.1
Partial listen queue information is available.
UnixWare 7.1.[134]
Partial listen queue information is available.

3.15 What does "no more information" in the NAME column mean?

When lsof can find no successor structures -- a gnode,
inode, socket, or vnode -- connected to the file structure
of an open descriptor of a process, it reports "no more
information" in the NAME column. The TYPE, DEVICE, SIZE/OFF,
and INODE columns will be blank.

Because the file structure is supposed to contain a pointer
to the next structure of a file's processing support, if
the pointer is NUL, lsof can go no further.

Some UNIX dialects have file structures for system processes
-- e.g., the sched process --
that have no successor
structure pointers. The "no more information" NAME will
commonly appear for these processes in lsof output.

It may also be the case that lsof has read the file structure
while it is being assembled and before a successor structure
pointer value has been set. The "no more information" NAME
will again result.

Unless lsof output is filled with "no more information"
NAME column messages, the appearance of a few should be no
cause for alarm.

3.16 Why doesn't lsof find a process that ps finds?

If lsof fails to display open files for a process that ps
indicates exists, there may be several reasons for the
difference.

The process may be a "zombie" for which ps displays the
"(defunct)" state. In that case, the process has exited
and has no open file information lsof can display. It does
still have a process structure, sufficient for the needs
of ps.

Another possible explanation is that kernel tables and
structures may have been changing when
lsof looked for the
process, making lsof unable to find all relevant process
structures. Try repeating the lsof request.

3.17 Why doesn't -V report a search failure?

The usual reason that -V won't report a search failure is
that lsof located the search item, but was prevented from
listing it by an option that doesn't participate in search

failure reporting.

For example, this lsof invocation:

```
$ lsof -V -i TCP@foobar -a -d 999
```

won't report it can't find the Internet address TCP@foobar,
even if there is an open file connected to that address,
unless the open file also has a file descriptor number of
999 (the ``-a -d 999'' options).

Compile-time options can also affect -V results in much the
same way. For example, if HASSECURITY and HASNOSOCKSECURITY
are defined at compile time, this lsof invocation, run by a
non-root user:

```
$ lsof -V -c inetd
```

won't report that it can't find the inetd command, even if
there is a process running the inetd command, because
the
HASSECURITY and HASNOSOCKSECURITY options prevent the
listing of all but the socket files of another user, and
no socket file selector (e.g., "-i") was specified.

3.18 Portmap problems

3.18.1 Why isn't a name displayed for the portmap registration?

When portmap registration reporting is enabled, any time
there is a registration for a local TCP or UDP port, lsof
displays it in square brackets, following the port number
or service name -- e.g., ``:1234[name]'' or ``:name[100083]''.

The TCP or UDP port number or service number (what follows
the `:') is displayed under the control of the lsof -P
option. The registration identity is held by the portmapper
and may be a name or a number, depending on how the
registration's owner declared it. Lsof reports what the
port map holds and cannot derive a registration name from
a registration number.

Lsof can be compiled with registration reporting enabled
or disabled by default, under the control of the HASPMAPENABLED
#define
(usually in machine.h). The lsof help panel (`lsof
-h`) will show the default. Lsof is distributed with

reporting disabled by default.

3.18.2 How can I display only portmap registrations?

Lsof doesn't have an option that will display only TCP or UDP ports with portmap registrations. The +M option only enables the reporting of registration information when Internet socket files are displayed; +M doesn't select the displaying of Internet socket files -- the -i option does that.

This simple lsof pipe to grep will do the job:

```
$ lsof -i +M | grep "\["
```

This works because -i selects Internet socket files, +M enables portmap registration reporting, and only output lines with opening square brackets will have registrations.

When portmap registration reporting is enabled by default, because the lsof builder constructed it that way, +M is not necessary. (The lsof help panel, produced with `lsof -h` will display the default portmapper registration reporting state.)
However, specifying +M when reporting is already enabled is acceptable, as is specifying -M when reporting is already disabled.

Digression: lsof will accept `+' or `-' as a prefix to most options. (That isn't documented in the man page or help panel to reduce confusion and complexity.) The -i option is as acceptable as +i, so the above example could be written a little more tersely as:

```
$ lsof +Mi | grep "\["
```

But be careful to use the ``Mi'' ordering, since ``iM'' implies M is an address argument to `i'.

3.18.3 Why doesn't lsof report portmap registrations for some ports?

Lsof reports portmap registrations for local TCP and UDP ports only. It identifies local ports this way:

* The port appears in the local address section of the kernel structure that contains it.

* The port appears in the foreign address section of a

kernel structure whose local and foreign Internet
addresses are the same.

* The port appears in the foreign address section
of a
kernel address structure whose Internet address is
INADDR_LOOPBACK (127.0.0.1).

Following these rules, lsof ignores foreign portmapped
ports. That's done for reasons of efficiency and possible
security prohibitions. Contacting all remote portmappers
could take a long time and be blocked by network difficulties
(i.e., be inefficient). Many firewalls block portmapper
access for security reasons.

Lsof may occasionally ignore portmap registration information
for a legitimate local port by virtue of its local port
rules. This can happen when a port appears in the foreign
part of its kernel structure and the local and foreign
Internet addresses don't match (perhaps because they're on
different interfaces), and the foreign Internet address
isn't INADDR_LOOPBACK (127.0.0.1).

3.18.4 Why doesn't lsof report portmap registrations for some Solaris
versions?

In some versions of Solaris -- 9 and 10 are known to exhibit
this problem -- lsof is unable to display portmap
registrations.

This portmap registration reporting failure occurs when the
Solaris netconfig field (in /etc or etc/inet) has its first two
non-comment lines enabling tcp6 and udp6. When netconfig is
configured in that fashion, lsof's attempt to read the portmap
via an RPC function fails.

I don't have an explanation for the failure, but this comment
in the netconfig(4) man page appears to have some bearing on
the problem:

```
# The following two entries starting with udp6 and tcp6 are
# meant to be used for IPv6. If you have Ipv6 enabled on your
# machine then you can uncomment these two lines to enable
# RPC and NFS to use the Ipv6 stack.
...
#udp6  tpi_clts      v  inet6  udp  /dev/udp6  -
#tcp6  tpi_cots_ord  v  inet6  tcp  /dev/tcp6  - "
```

My interpretation of that comment is that there is a different RPC interface to the portmap when IPv6 is enabled. However, I can't find any documentation on it in the RPC man pages. If anyone has
information on it, please send it to me at <abe@purdue> and put "lsof Solaris portmap" in the subject line.

A work-around may be to move the ucp6 and tcp6 lines after the udp and tcxp lines in netconfig. I don't know if that change has any unacceptable consequences, but it works for me on my Solaris 9 test system, and I have a report that it also works on Solaris 10.

3.19 Why is `lsof | wc` bigger than my system's open file limit?

There is a strong temptation to count open files by piping lsof output to wc. If your purpose is to compare the number you get to some Unix system parameter that defines the number of open files your system can have, resist the temptation.

One reason is that lsof reports a number of "files" that don't occupy Unix file table space -- current working directories, root directories, jail directories, text files, library files, memory mapped files are some. Another reason is that lsof can report a file shared by more than one process that
itself occupies only one file table slot.

If you want to know the number of open files that occupy file table slots, use the +ff option and process the lsof output's FILE_ADDR column information with standard Unix tools like cut, grep, sed, and sort.

You might also consider using use lsof's field output with +ff, selecting the file struct address with -FF, and processing the output with an AWK or Perl script. See the list_fields.awk, list_fields.perl, and shared.perl5 scripts in the scripts/ subdirectory of the lsof distribution for hints on file struct post-processing filters.

3.20 Why doesn't lsof report file offset (position)?

Lsof won't report a file offset (position) value if the -s option (without parameters) has been specified, or if the dialect doesn't support the displaying of file offset

(position). (Note that on selected dialects the help output, obtained with -h or -?, may show that the -s option can also be supplied the "p:s" parameters; for more information on that addition, see the answer to the "How are protocol state name exclusion and inclusion used?" question.)

That lsof is reporting only file size is indicated by the fact that the appropriate column header says SIZE instead of SIZE/OFF.

If lsof doesn't support the displaying of file offset (position) -- e.g., for Linux /proc-based lsof -- the -h or -? output panel won't list the -o option.

Sometimes the availability of file offset information depends on the dialect's kernel. This is particularly true for socket file offsets.

Maintenance of offsets for pseudo-terminal devices varies by UNIX dialect and is related to how the dialect kernel implements pseudo-terminal support. Kernels like AIX, for example, that short-circuit the transfer of data between socket and pseudo devices to reduce TCP/IP daemon interrupt rates won't advance offsets in the TCP/IP daemon socket files. Instead they will advance offsets in the open standard I/O files of the shell child precess where the pseudo-terminal devices are used.

When in doubt about the behavior of lsof in reporting file offset information, do some carefully measured experiments, consult the lsof sources, or contact me at <abe@purdue.edu> to discuss the matter. Please follow the reporting guidelines in the "How do I report an lsof bug?" section of this FAQ.

3.20.1 What does lsof report for size when the file doesn't really have one?

When a file has no true size -- e.g., it's a socket, a FIFO, or a pipe -- lsof tries to report the information it finds in the kernel that describes the contents of associated kernel buffers.

Thus, for example, size for most TCP/IP files is socket buffer size. The size of the socket read buffer is reported for read-only files; the size of the write buffer for write-only files; and the sum of the buffers sizes for

read-write files.

3.21 Problems with path name arguments

3.21.1 How do I ask lsof to search a file system?

You can ask
lsof to search for all open files on a file
system by specifying its mounted path name as an lsof
argument -- e.g.,

```
$ lsof /
```

Output of the mount command will show file system mounted
path names. It will also show the mounted-on device path
for the file system.

If the mounted-on device is a block device (the permission
field in output of `ls -l <device>` starts with a `b/),
you can specify it's name, too -- e.g.,

```
$ lsof /dev/sd0a
```

If the mounted-on device isn't a block device -- for example,
some UNIX dialects call a CD-ROM device a character device
(ls output starts with a `c') -- you can force lsof to
assume that the specified device names a file system with
the +f option -- e.g.,

```
$ lsof +f -- /dev/sd0a
```

(Note: you must use ``--'' after +f or -f if a file name
follows immediately, because +f and -f can be followed by
characters that specify flag output selections.)

When you use +f and lsof can't match the device to a file
system, lsof will issue
a complaint.

The +f option may be used in some dialects to ask lsof to
search for an NFS file system by its server name and server
mount point. If the mount application reports an NFS file
system mounted-on value that way, then this sample lsof
request should work.

```
$ lsof +f -- fleet:/home/fleet/u5
```

Finally, you can use -f if you don't want a mounted file

system path name to be considered a request to report all
open files on the file system. This is useful when you
want to know if anyone is using the file system's mounted
path name. This example directs lsof to report on open
access to the `/' directory, including when it's being used
as a current working or root directory.

```
$ lsof -f -- /
```

The lsof -f option performs the same function as -f does
in some fuser implementations. However, since the lsof -c
option was chosen for another purpose before the `f' option
was added to lsof, +f was selected as the analogue to the
fuser -c option. (Sorry for
the potential confusion.)

3.21.2 Why doesn't lsof find all the open files in a file system?

Lsof may not find all the open files in a file system for
several reasons.

First, some processes with files open on the file system
may have been changing status when lsof examined the process
table, and lsof "missed" them. Remember, the kernel changes
much faster than lsof can respond to the changes.

Second, be sure you have specified the file system correctly.
Perhaps you specified a file instead. You can use lsof's
-V option to have lsof report in detail on what it couldn't
find. Make sure the report for the file system you specified
says "file system." Here's some -V output:

```
$ /lsof -V /tmp ./lsof.h ./lsof
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
lsof    2688  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
lsof    2689  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
lsof: no file use located: ./lsof.h
```

You can also use lsof's +f option
to force it to consider
a path name as a file system. If lsof can't find a file
system by the specified name, it will issue a complaint --
e.g.,

```
$ lsof +f -- /usr
lsof: not a file system: /usr
```

(/usr is a directory in the / file system.)

3.21.3 Why does the lsof exit code report it didn't find open files when some files were listed?

Sometimes lsof will list some open files, yet return a non-zero exit code, suggesting it hasn't found all the specified files.

The first thing you should when you suspect lsof is incorrect is to repeat the request, adding the -V option. In the resulting report you may find that your file system specification really wasn't a file system specification, just a file specification.

Finally, if you specify two files or two file systems twice, lsof will credit all matches to the first of the two and believe that there were no matches for the second. It's possible to specify a single file system twice with different path names
by using both its mounted directory path name and mounted-one device name.

```
$ lsof +f -V spcuna:/sysprog /sysprog
COMMAND   PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
ksh     11092  abe  cwd   VDIR 39,0,1     1536 226562 /sysprog
(spcuna:/sysprog)
...
lsof: no file system use located: spcuna:/sysprog
```

All matches were credited to /sysprog; none to spcuna:/sysprog.

3.21.4 Why won't lsof find all the open files in a directory?

When you give lsof a simple directory path name argument (not a file system mounted-on name), you are asking it to search for processes that have the directory open as a file, or as a process-specific directory -- e.g., root or current working directory.

If you want to list instances of open files inside the directory, you need to specify the individual path names of those files, or use the lsof +D and +d options.

See the answer to the question "Why are the +D and +d options so slow?" before you use +D or +d casually.

See the answer to the question "Why do the +D and +d options

produce warning messages?" for an explanation of some
process authority limitations of +D and +d.

3.21.5 Why are the +D and +d options so slow?

The +D and +d options cause lsof to build a path name search
list for a specified directory. +D causes lsof to descend
the directory to its furthest subdirectory, while +d
restricts it to the top level. In both cases, the specified
directory itself is included in the search list. In both
symbolic links are ignored.

Building such a search list can take considerable time,
especially when the specified directory contains many files
and subdirectories -- lsof must call the system readlink()
and stat() functions for each file and directory. Storing
the search list can cause lsof to use more than its normal
amount of dynamic memory -- each file recorded in the search
list consumes dynamic memory for its path name, characteristics,
and search linkages. Using
the list means lsof must search
it for every open file in the system.

Building the search list for a directory specified on some
file systems can be slow -- e.g., for an NFS directory with
many files. Some file systems have special logging features
that can introduce additional delays to the building of
the search list -- e.g., NFS logging, or logging on a
Solaris UFS file system. The bottom line is that slow
search list construction may not be so much an lsof problem
as a file system problem. (Hint: if you're using Solaris
UFS logging, consider specifying the "logging,noatime"
option pair to reduce the number of atime writes to the
UFS logging queue and disk.)

A somewhat risky way to speed up lsof's building of the
search list is to use lsof's ``-O" option. It forces lsof
to do all system calls needed to build the search list
directly, rather than in a child process. While direct
system calls are much faster, they can block in the kernel
-- e.g., when an NFS
server stops responding -- stopping
lsof until the kernel operation unblocks.

As an example of the load +D can impose, consider that an
`lsof +D /` on a lightly loaded NeXT '040 cube with a 1GB
root file system disk took 4+ minutes of real time. It
also generated several hundred error messages about files

and directories the lsof process didn't have permission to
access with stat(2).

The bottom line is that +D and +d should be used cautiously.
+D is more costly than +d for deeply nested directory trees,
because of the full directory descent it causes. So use
+d where possible. And you might need to consider the
performance of the file system that holds the directory
you name with +d or +D.

In view of these warnings, when is it appropriate to use
+D or +d? Probably the most appropriate time is when you
would specify the directory's contents to lsof with a shell
globbing construct -- e.g., `lsof *`. If that's what you
need to do, `lsof +d .` is probably more
efficient than
having the shell produce a directory list, form it into an
argument vector, and pass the vector to lsof for it to
unravel.

See the answer to the question "Why do the +D and +d options
produce warning messages?" for an explanation of some
process authority limitations of +D and +d.

3.21.6 Why do the +D and +d options produce warning messages?

+D and +d option processing is limited by the authority of
the lsof process -- i.e., lsof can only examine (with
lstat(2) and stat(2)) files the owner of the process can
access.

If the ownership, group membership, or permissions of the
specified directory, file within it, or directory within
it prevents the owner of the lsof process from using lstat(2)
or stat(2) on it, lsof will issue a warning message, naming
the path and giving the system's (lstat(2's or stat(2)'s)
reason (errno explanation text) for refusing access.

As an example, assume user abc has a subdirectory in /tmp,
owned by abc and readable, writable
and searchable by only
its owner. If user def asks lsof to search for all /tmp
references with +D or +d, lsof will be unable to lstat(2)
or stat(2) anything in abc's private subdirectory, and will
issue an appropriate warning.

Lsof warnings can usually be suppressed with the -w option.
However, using -w with +D or +d means that there will be

no indication why lsof couldn't find an open reference to
a restricted directory or something contained in it.

Hint: if you need to use +D or +d and avoid authority
warnings, and if you have super-user power, su and use lsof
with +D or +d as root.

3.22 Why can't my C compiler find the rpcent structure definition?

When you try to compile lsof your compiler may complain
that the rpcent structure is undefined. The complaints
may look like this:

```
>print.c: In function `fill_portmap':
>print.c:213: dereferencing pointer to incomplete type
>...
```

The most likely cause is that someone has allowed a BIND
installation
to update /usr/include/netdb.h (or perhaps
/usr/include/rpc/netdb.h), removing the rpcent structure
definition that lsof expects to find there.

Only Solaris has an automatic work-around. (See dlsof.h
in dialects/sun.). The Solaris work-around succeeds because
there is another header file, <rpc/rpcent.h>, with the rpcent
structure definition, and there is a Solaris C pre-processor
test that can tell when the BIND <netdb.h> is in place and
hence <rpc/rpcent.h> must be included.

Doubtlessly there are similar work-arounds possible in
other UNIX dialects whose header files have been "touched"
by BIND, but in general I recommend restoration of the
vendor's <netdb.h> and any other header files BIND might
have replaced. (I think BIND replaces <resolv.h>,
<sys/bitypes.h>, <sys/cdefs.h> -- and maybe others.)

3.23 Why doesn't lsof report fully on file "foo" on UNIX dialect
"bar?"

Lsof sometimes won't report much information on a given
file, or may even report an error message
in its NAME
column. That's usually because the file is of a special
type -- e.g., in a file system specific to the UNIX dialect
-- and I haven't used a system where the file appeared
during my testing.

If you encounter such a situation, send me e-mail at
<abe@purdue.edu> and we may be able to devise an addition to
lsof that will report on the file in question. Please follow
the reporting guidelines in the "How do I report an lsof bug?"
section of this FAQ. Make sure "lsof" appears in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

3.24 Why do I get a complaint when I execute lsof that some library
file can't be found?

On systems where the LIBPATH (or the equivalent) environment
variable is used to record the library search path in
executable files when they are built, an incorrect value
may make it impossible for the system to find the shared
libraries needed to load lsof for execution.

This may be particularly true on systems like
AIX >= 4.1.4,
where the lsof Makefile takes the precautionary step of
using the -bnolibpath loader flag to insure that the path
to the private static lsof library is not recorded in the
lsof binary. Should LIBPATH be invalid when lsof is built,
it will be recorded in the lsof binary as the default
library path search order and lead to an inability to find
libraries when lsof is executed.

So, if you get missing library complaints when you try to
execute lsof, check LIBPATH, or whatever environment variable
is used on your system to define library search order in
executable files. Use the tools at your disposal to look
at the library paths recorded in the lsof binary -- e.g.,
chatr on HP-UX, dump on AIX, ldd on Solaris.

Make sure, too, that when the correct library search path
has been recorded in the executable file, the required
library files exist at one or more of the search paths.

3.25 Why does lsof complain it can't open files?

When lsof begins execution,
unless it has been asked to
report only help or version information, typically it will
attempt to access kernel memory and symbol files -- e.g.,
/unix, /dev/kmem. Even though lsof needs only permission
to open these files for reading, read access to them might
be restricted by ownerships and permission modes.

So the first step to diagnosing lsof problems with opening files is to use ls(1) to examine the ownerships and permission modes of the files that lsof wants to open. You may find that lsof needs to be installed with some type of special ownership or permission modes to enable it to open the necessary files for reading. See the "Installing Lsof" section of 00README for more information.

3.26 Why does lsof warn "compiled for x ... y; this is z."?

Unless warnings are suppressed (with -w) or the kernel identity check symbol (HASKERNIDCK) definition has been deleted, all but one lsof dialect version (exception: /proc-based Linux lsof) compare the identity of the running
kernel to that of the one for which lsof was constructed. If the identities don't match, lsof issues a warning like this:

```
lsof: WARNING: compiled for Solaris release 5.7; this is 5.6.
```

Two kernel identity differences can generate this warning -- the version number and the release number.

Build and running identity differences are usually significant, because they usually indicate kernels whose structures are different -- kernel structures commonly change at dialect version releases. Since lsof reads data from the kernel in the form of structures, it is sensitive to changes in them. The general rule is that an lsof compiled for one UNIX dialect version will not work correctly when run on a different version.

There are three work-arounds: 1) use -w to suppress the warning -- and risk missing other warnings; 2) permanently disable the identity check by deleting the definition of HASKERNIDCK in the dialect's machine.h header file -- with the same risk;
or 3) rebuild lsof on the system where it
is to be run. (Deleting HASKERNIDCK can be done with the Customize script or by editing machine.h.)

Generally checking kernel identity is a quick operation for lsof. However, it is potentially slow under AIX, where lsof must run /usr/bin/oslevel. To speed up lsof, use -w to suppress the /usr/bin/oslevel test. See "Why does AIX lsof start so slowly?" for more information.

3.27 How can I disable the kernel identity check?

The kernel identity check is controlled by the HASKERNIDCK definition. When it is defined, most dialects (exclusion: /proc-based Linux lsof) will compare the build-time kernel identity with the run-time one.

To disable the kernel identity check, disable the HASKERNIDCK definition in the dialect's machine.h header file. The Customize script can be used to do that in its section about the kernel identity check.

Caution: while disabling the kernel identity check may result in smaller lsof startup overhead, it comes with the risk of executing an lsof that may produce warning messages, error messages, incorrect output, or no output at all.

3.28 Why don't ps(1) and lsof agree on the owner of a process?

Generally the user ID lsof reports in its USER column is the process effective user ID, as found in the process structure. Sometimes that may not agree with what ps(1) reports for the same process.

There are sundry reasons for the difference. Sometimes ps(1) uses a different source for process information, e.g., the /proc file system or the psinfo structure. Sometimes the kernel is lax or confused (e.g., Solaris 2.5.1) about what ID to report as the effective user ID. Sometimes the system carries only one user ID in its process structure (some BSD derivatives), leaving lsof no choice.

The differences between lsof and ps(1) user identifications should be small and normally it will be apparent that the confusion is over a process whose application has changed to an effective user ID different from the real one.

3.29 Why doesn't lsof find an open socket file whose connection state is past CLOSE_WAIT?

TCP/IP connections in states past CLOSE_WAIT -- e.g., FIN_WAIT_1, CLOSING, LAST_ACK, FIN_WAIT_2, and TIME_WAIT -- don't always have open files associated with them. When they don't, lsof can't identify them. When the connection state advances from CLOSE_WAIT, sometimes the open file

associated with the connection is deleted.

3.30 Why don't machine.h definitions work when the surrounding comments are removed?

The machine.h header files in dialect subdirectories have some commented-out definitions like:

```
/* #define HASSYSDC "/your/choice/of/path */
```

You can't simply remove the comments and expect the definition to work. That's intended to make you think about what value you are assigning to the symbol. The assigned value might have a system-specific convention. HASSYSDC, for example, might be /var/db/lsof.dc for FreeBSD, but it might
be /var/adm/lsof.dc for Solaris.

Symbols defined in the lsof documentation are described in 00PORTING, other machine.h comments, and other lsof documentation files. HASSYSDC, for example, is discussed in 00DCACHE. When comments and documentation don't suffice, consult the source code for hints on how the symbol is used.

3.31 What do "can't read inpcb at 0x...", "no protocol control block", "no PCB, CANTSENDMORE, CANTRCVMORE", etc. mean?

Sometimes lsof will report "can't read inpcb at 0x00000000", "no protocol control block", "no PCB, CANTSENDMORE, CANTRCVMORE" or a similar message in the NAME column for open TCP socket files. These messages mean the file's socket structure lacks a pointer to the INternet Protocol Control Block (inpcb) where lsof expects to find connection addresses -- local and foreign ports, local and foreign IP addresses. The socket file has probably been submitted to the shutdown(2) function for processing.

In some implementations lsof
issues the "no PCB, CANTSENDMORE, CANTRCVMORE" message, which tries to explain the absence of a protocol control block by showing the socket state settings that have been made by the shutdown(2) function.

If a non-zero address follows the "0x" in the "can't read inpcb" message, it means lsof couldn't read inpcb contents from the indicated address in kernel memory.

3.32 What do the "unknown file system type" warnings mean?

Lsof may report a message similar to"

```
unknown file system type, v_op: 0x10472f10
```

in the NAME column for some files.

This means that lsof has encountered a vnode for the file whose operation switch address (from v_op) references a file system type for which there is no support in lsof. After lsof identifies the file system type, it uses pre-compiled code to locate the file system specific node for the file where lsof finds information like file size, device number, node number, etc.

To get some idea of what the file system type might be, use
nm on your kernel symbol file to locate the symbol name that corresponds to the v_op address -- e.g., on Solaris do:

```
$ nm -x /dev/ksyms | grep 0x10472f10
0x10472f10 ... |file_system_name_vnodeops
```

Where "file_system_name" is the clue to the unsupported file system.

Lsof doesn't use the v_op address to identify file system types on all dialects. Sometimes it uses an index number it finds in the vnode. It will translate that symbol to a short name in the warning message -- e.g., "nfs3" -- if possible.

3.33 Installation

3.33.1 How do I install lsof?

There is no "standard" way to install lsof. Too much depends on local conditions for me to be able to provide working install rules in the lsof make files. (The skeleton install rules you will find just give "hints.") See the "Installing Lsof" section of 00README for a fuller explanation.

To install lsof you will need to consider these questions:

* Who should be able to use lsof? (See HASSECURITY and

HASNOSOCKSECURITY in the "Security" section of 00README.)

* Where should lsof be installed? This is a decision mostly dictated by local conditions. Somewhere in /usr/local -- etc/ or sbin/ -- is a common choice.

* What permissions should I give the lsof executable? The answer to this varies by dialect. The make files have install rules that give hints. The "Installing Lsof" section of 00README gives information, too.

* What if I want to install lsof in a shared file system for machines that require different lsof configurations? See the next question and answer, "How do I install a common lsof when I have machines that need differently constructed lsof binaries?"

3.33.2 How do I install a common lsof when I have machines that need differently constructed lsof binaries?

A dilemma that faces some system administrators when they install lsof in a shared file system -- e.g., NFS -- is that they must have different lsof executables for different systems.

The answer is to build an lsof wrapper script that is executed in place of lsof. The script can use system commands to determine which lsof binary should be executed.

Consider this example. You have HP-UX machines with 32 and 64 bit kernels that share the /usr/local/sbin directory where you want to install lsof. Consequently, on each system you must use a different lsof executable, built for the system's bit size. (That's because lsof reads kernel structures, sized by the kernel's bit size.)

One answer is to install three things in /usr/local/sbin: 1) a 32 bit lsof as lsof32; 2) a 64 bit lsof as lsof64; and 3) an lsof script. The script might look like this one, based on work by Amir J. Katz:

```
#!/bin/sh
x=`/usr/bin/getconf KERNEL_BITS`  # returns 32 or 64
if /usr/bin/test "X$x" = "X32"
then
  lsof32 $*
else
```

```
    if /usr/bin/test "X$x" = "X64"
    then
 lsof64 $*
    else
 echo "Can't determine which
lsof executable to use;"
 echo "getconf KERNEL_BITS says: $x"
 exit 1
    fi
   fi
```

Solaris users should consult "How do I install lsof for Solaris 7, 8 or 9?" for information on a similar trick using the Solaris isaexec command.

Users of other dialects might be able to use a command like uname(1) that can identify a distinguishing feature of the system to be incorporated in pre-installed lsof executable names. For example, use `uname -r` and install binaries with suffixes that match `uname -r` output.

3.34 Why do lsof 4.53 and above reject device cache files built by earlier lsof revisions?

When lsof revisions 4.53 run and encounter a device cache file built by an earlier revision, it will reject the file and build a new one. The rejection will be advertised with these messages:

```
lsof: WARNING: no /dev device in <name>: 2 sections
...
lsof: WARNING: created device cache file: <name>
```

This happens because the header line of the device cache file
was changed at revision 4.53 to contain the number of the device on which the device directory resides. The old device cache file header line -- the "2 sections" line in the above warning message, node reads "2 sections, dev=600".

This is not a serious problem, since lsof automatically rebuilds the device cache file with the correct header line.

3.35 What do "like block special" and "like character special" mean in the NAME column?

When lsof comes across an open block or character file

whose device, raw device and inode place it somewhere other than /dev (or /devices), lsof doesn't report the /dev (or /devices) name in the NAME column. Instead lsof reports the file system name and device or path name in the NAME column and parenthetically adds "like block special <path>" or "like character special <path>".

The value for <path> will point to a block or character device in /dev (or /devices) whose raw device number matches that of the open file being reported, but
whose device
number or node number (or both) don't match.

Such an open file is connected to a device node that has been created in a directory other than /dev (or /devices.) See mknod(8) for information on how such nodes are created. (Generally one needs root power to create device nodes with mknod.)

3.36 Why does an lsof make fail because of undefined symbols?

When lsof is compiled via the `make` step and the final load step fails because of missing symbols, the problem may not be lsof. The problem may be that ld, called by the compiler as part of the `make` step, can't find some library that lsof needs.

First check the last compiler line of the make operation -- e.g., the last line with cc or gcc in it before the undefined symbol report -- for loader arguments, i.e., ones beginning with "-l". Except for "-llsof" the rest name system libraries. ("-L./lib" precedes "-llsof" to tell the loader its location.)

Check that all the named system libraries exist. Look
in
/lib and /usr/lib as a start, but that may not be the only place system libraries live. Consult your dialect's documentation, e.g., the compiler and loader man pages, for other possible locations.

If some system library doesn't exist, that may mean it was never installed or was removed. You'll have to re-install the missing library.

You may find that all the system libraries lsof uses exist. Your next step might be to use nm and grep to see if any of them contain the undefined symbols.

```
   $ nm library | grep symbol
```

If the undefined symbol exists in some library named by the lsof make step, then you might have a problem with some environment variable that controls the load step. The most common is LD_LIBRARY_PATH. It may have a setting that causes ld to ignore a directory containing a library lsof names. If this is the case, try unsetting LD_LIBRARY_PATH in the environment of the ld process -- e.g., do:

```
   $ unset LD_LIBRARY_PATH
```

or

```
   % unsetenv
```

LD_LIBRARY_PATH

Consult your ld man page for other environment variables that might affect library searching -- e.g., LIBPATH, LPATH, SHLIB_PATH, etc.

If the undefined function doesn't exist in any libraries lsof names, check other libraries. See if the function has a man page that names its library. If the latter is true, please let me know, because that is an lsof problem I need to fix.

If none of these solutions work for you, send me some documentation via e-mail at <abe@purdue.edu>. Include `uname -a` output, the output of the lsof `Configure ...` and `make` steps, and the contents of the environment in force when the `make` step was executed -- e.g., `env` or `printenv` output. If you've located the libraries lsof names, send me that information, too. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

3.37 Command Regular Expressions (REs)

3.37.1 What are basic and extended regular expressions?

Lsof's ``-c'' option allows the specification of regular expressions (REs), enclosed in two slash ('/') characters and followed by these modifiers:

```
   b the RE is a basic RE.
   i ignore case.
   x the RE is an extended RE (the default).
```

Note: the characters of the regular expression may need to
be quoted to prevent their expansion by the shell.

Example: this RE is an extended RE that matches exactly
four characters, whose third may be an upper ('O') or lower
case ('o') oh:

```
-c /^..o.$/i
```

For simplicity's sake, an RE that is acceptable to egrep(1)
is usually called an extended RE.

REs suitable for the old line editor, ed(1), are often
called basic REs (and sometimes also called obsolete).

These are some ways basic REs usually differ from extended
REs. (There are other differences.)

* `|', `+', `?', '{', and '}' are ordinary characters.

* `^' is an ordinary character except at the beginning of
  the RE.

* `$' is an ordinary character except at the end
of the
  RE.

* `*' is an ordinary character if it appears at the
  beginning of the RE.

For more information on REs and the distinction between
basic and extended REs, consult your dialect's man pages
for ed(1), egrep(1), sed(1), and possibly regex(5) or
regex(7).

3.37.2 Why can't I put a slash in a command regular expression?

Since a UNIX command name is the last part of a path to
the command's executable, the lsof command regular expression
(RE) syntax uses slash ('/') to mark the beginning and end
of an RE. Slash may not appear in the RE and the `\'
back-slash escape is ineffective for "hiding" it.

More likely than not, if you try to put a slash in an lsof
command RE, you'll get this response:

```
$ lsof -s/.\// ...
lsof: invalid regexp modifier: /
```

Lsof is complaining the the first character it found after
the second slash isn't an lsof command RE modifier -- 'b',
'i', or 'x'.

3.37.3 Why does lsof say my command regular expression wasn't found?

When
you use both forms of lsof's -c option --
``-c <command>" and ``-c /RE/[m]" -- and ask that lsof
do a verbose search (``-V"), you may be surprised that
lsof will say that the regular expression wasn't found.

This can happen if the ``-c <command>" form matches first,
because then the ``-c/RE/[m]" test will never have been
applied. For example:

```
$ ./lsof -clsof -c/^..o.$/ -V -adcwd
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  NODE NAME
lsof    7850  abe  cwd   VDIR    6,0     2048 96442 / (/dev/sd0a)
lsof: no command found for regex: ^..o.$
```

The ``-clsof" option matched first, so the ``-c/^..o.$/
option wasn't tested.

3.38 Why doesn't lsof report on shared memory segments?

Lsof reports on shared memory segments only if they're
associated with an open file. That's consistent with lsof's
mission -- to LiSt Open Files. Shared memory segments with
no file associations aren't open files.

That's not to say that a report on shared memory segments
and
their associated processes wouldn't be useful. But it
calls for a new tool, not more baggage for lsof.

3.39 Why does lsof report two instances of itself?

When you ask lsof to report all open files and it has
permission to do so, you may see two lsof processes in the
output. The processes are connected via pipes -- e.g.,
here's an HP-UX 11 example.

```
COMMAND     PID USER   FD   TYPE     DEVICE ...
...
lsof      29450  abe    7w  PIPE 0x48732408 ...
lsof      29450  abe    8r  PIPE 0x48970808 ...
```

```
...
lsof     29451  abe    6r  PIPE 0x48732408 ...
lsof     29451  abe    9w  PIPE 0x48970808 ...
```

The first process will usually be the lsof you initiated;
the second, an lsof child process that is used to isolate
its parent process from kernel functions that can block --
e.g., readlink() or stat().

Information to and from the kernel functions is exchanged
via the two pipes. When the parent process detects that
the child process has
become blocked, it attempts to kill
the child. Depending on the UNIX dialect that may succeed
or fail, but the parent won't be blocked in any event.

See the "BLOCKS AND TIMEOUTS" and "AVOIDING KERNEL BLOCKS"
sections of the lsof man page for more information on why
the child process is used and how you can specify lsof
options to avoid it. (Caution: that may be risky.)

3.40 Why does lsof report '\n' in device cache file error messages?

Lsof revisions prior to 4.58 may report '\n' in error
messages it delivers about problems in the device cache
file -- e.g.,

```
lsof: WARNING: no ...: 4 sections\n
```

That's deliberately done to show the exact contents of the
device cache file line about which lsof is complaining,
including its terminating NL (New Line) '\n' character.
In the above example the line in the device cache file
causing the lsof complaint contains "4 sections" and ends
with a '\n'.

At revision 4.58 and above, device cache error messages
like the one in
the above example have been changed to
read:

```
lsof: WARNING: no ...: line "4 sections"
```

The terminal '\n' is no longer reported, the line contents
are enclosed in double quote marks (""), and the word
"line" has been added as a prefix to denote that what
follows is a line from the device cache file.

3.41 Kernel Symbol and Address Problems

3.41.1 What does "lsof: WARNING: name cache hash size length error: 0" mean?

When run on some systems, lsof may issue this warning:

```
lsof: WARNING: name cache hash size length error: 0
```

That is an example from a FreeBSD system where lsof reads the kernel's _nchash variable and finds its value is zero.

Similar warnings include:

```
WARNING: kernel name cache size:
WARNING: can't read kernel's name cache:
WARNING: no name cache address
WARNING: name cache hash size length error:
WARNING: unusable name cache size:
```

These warnings are issued when lsof is attempting to read the kernel's name cache information. They are usually the result of a mis-match between the addresses for kernel symbols lsof gets via nlist(2) and the addresses in use by the kernel.

Lsof usually gets kernel symbol addresses from what it believes to be the kernel boot file. In FreeBSD, for example, that's the path returned by getbootfile(3), usually /kernel. The boot file can have other names in other UNIX dialects -- /unix, /vmunix, /bsd, /netbsd, /mach, /stand/vmunix, etc.

Lsof will get incorrect (mismatched) addresses from the boot file if it has been replaced by a newer one which hasn't yet been booted -- e.g., if this is done in FreeBSD:

```
# mv /kernel /kernel.OLD
# mv /kernel.NEW /kernel
```

Until the FreeBSD system is rebooted, the booted kernel is /kernel.OLD, but getbootfile() says it is /kernel. If symbol addresses important to lsof in /kernel.OLD and /kernel don't match, the lsof WARNING messages result.

3.41.2 Why does lsof produce "garbage" output?

Kernel name cache warnings
may not be the only sign that
lsof is using incorrect symbol addresses to read kernel
values. If there's no reasonable test lsof can make on
what it reads from the kernel, it may issue other warnings
or even report nonsensical results.

The warnings may appear on STDERR, such as:

    lsof: can't read proc table info

Or the warnings may appear in the NAME column as messages
saying lsof can't read or interpret some kernel structure --
e.g.,

    ... NAME
    ... can't read file struct from 0x12345

One possible work-around is to point lsof's kernel symbol
address gathering at the proper boot file. That can be
done with lsof's -k option -- e.g.,

    $ lsof -k /kernel.OLD

The best work-around is to make sure the standard boot file
is properly sited -- e.g., if you've moved a new /kernel
in place, boot it.

3.42 Why does lsof report open files when run as super user that
it doesn't report when run with lesser privileges?

The most likely cause is that the HASSECURITY
option was
selected when the lsof executable was built.

If HASSECURITY is defined when lsof is built, and lsof is
run with the privileges of a non-ROOT user, it will only
list open files belonging to the user. The same lsof
executable, when run with root user privileges, will list
all open files.

However, if HASSECURITY and HASNOSOCKSECURITY are both
defined when lsof is built, lsof will list open files
belonging to the user and will also list anyone else's open
socket files, provided their listing is selected with the
"-i" option.

So first ask yourself if the process whose open files lsof

won't list belong to a user other than the one under which
you're running lsof, and are not open socket files. If
either is true, use lsof's help (-h or -?) option and look
for a line near the bottom of the help panel that says:

    "... can list all files..."

If the leading "..." says "Only root" then HASSECURITY was
defined when lsof was built. If the trailing "..."
says
", but anyone can list socket files" then HASNOSOCKSECURITY
was also defined.

Should you want an lsof not built with HASSECURITY defined,
rerun the lsof Configure script. If you let Configure do
customization, make sure you answer 'n' when it asks if
you want to enable HASSECURITY and HASNOSOCKSECURITY. If
you don't need to do customization, you can rebuild lsof
with the "-n" option to Configure. Here's an example of
such a rebuild sequence:

    $ Configure -clean
    $ Configure -n <dialect-abbreviation>
    $ make

More information on the HASSECURITY and HASNOSOCKSECURITY
options may be found in the "Security" section of the
00README file of the lsof distribution.

3.43 Test Suite Problems

3.43.1 Errors all tests can report:

3.43.1.1 Why do tests complain "ERROR!!! can't execute ../lsof"?

All tests in the test suite expect an executable lsof file
to exist in the tests parent directory, ../lsof.

If there's none there, the tests/Makefile has a rule
to
make it, but there are probably circumstances where that
rule may fail.

The work-around is to re-Configure and re-make lsof, then
run the test suite.

3.43.1.2 Why do tests complain "ERROR!!! can't find ..." a file?

Many tests create (or use from a supplied environment variable path) a test file and use lsof to find it. When lsof can't file the file, the tests report the error with messages of the form:

```
   ERROR!!!  can't find ... : <some file path>
 or
   ERROR!!!  lsof couldn't find ...
```

These type of error messages mean that the lsof field output delivered to the test didn't contain a file that the test could identify as the one it intended lsof to find. It might also mean that the process information -- command name, PID or parent PID -- didn't match what the test expected.

This could imply a bug in the test or a bug in lsof. Try using lsof to find a known file that is open. For example, while in the tests sub-directory, do this:

```
   $ sleep 30 <
Makefile
   $ ../lsof Makefile
```

If lsof doesn't report that Makefile is open, then the fault may be with lsof. If lsof reports the file is open, search further in the test code for the failure cause.

3.43.1.3 Why do some tests fail to compile?

If a test suite program fails to compile, it may be because I've never had an opportunity to compile the test on the particular UNIX version you are using.

See Appendix B in 00TEST for a list of the UNIX dialects where the test suite has been validate.

3.43.1.4 Why do some tests always fail?

There are several tests in the optional group that have conflicting or special requirements:

```
   LTbigf      needs a dialect and file system that support
  large files.

   LTlock      won't work if the tests/ sub-directory is
  on an NFS file system.
```

LTnfs won't work if the tests/ sub-directory is
not on an NFS file system.

So for two tests in particular, LTlock and LTnfs, one will
generally fail.

Some failing tests
can be run successfully by supplying to
them a path to the appropriate type of file system with
the -p option.

3.43.1.5 Why does the test suite say it hasn't been validated on
my dialect?

When you use the default rule of the test suite's Makefile,
it may issue this complaint:

$ cd tests
$ make
!!!WARNING!!!

This dialect or its particular version may not have
been validated with the lsof test suite. Consequently
some tests may fail or may not even compile.

!!!WARNING!!!

You are then given the opportunity to answer 'y' to have
the test suite operation continue.

This message means that the tests/TestDB file in the tests
sub-directory doesn't show that the test suite has been
run with the combination of compiler flags found in
tests/config.cflags. The tests might nor run; they may
encounter compiler failures.

See 00TEST for more information on the UNIX dialects where
the test suite has been validated and on the workings of
TestDB
and its supporting scripts.

When the tests/Makefile "auto" rule is used, the message
is more terse and the condition is fatal.

This suite has not been validated on:

<dialect_description>

No opportunity to continue is offered.

The tests/Makefile "silent" rule will skip checking for
the validation footprint.

3.43.1.6 Why do the tests complain they can't stat() or open()
/dev/mem or /dev/kmem?

When the tests detect that lsof for the dialect reads its
information from kernel memory (i.e., the LT_KMEM definition
is present in tests/config.cflags), and when the lsof
executable path is ../lsof, the tests make sure they can
stat() and open() for read access the relevant kernel memory
devices, /dev/kmem and possibly /dev/mem.

If those stat() or open() operations fail, the tests issue
an error message and quit. The message explains why the
system rejected the operation in terms of system "errno"
symbols and messages. More often than not the explanation
will
be that the process lacks permission to access the
indicated device node.

One work-around is to give the lsof executable being tested
the necessary permission -- e.g., via chgrp, chmod, etc.
-- and set its path in the LT_LSOF_PATH environment variable.
(See 00TEST.)

Another work-around is to make sure the process that runs
the tests has the necessary permissions -- e.g., run it as
root, or enable the process login to access the resources.
For example, I can run the tests on my personal work-station
because /dev/kmem and /dev/mem are readable by the "kmem"
group and my login is in that group.

3.43.2 LTbigf test issues

3.43.2.1 Why does the LTbigf test say that the dialect doesn't
support large files?

Large file support is defined dialect by dialect in the
lsof source files and Configure script. If large file
support isn't defined there, it isn't defined in the LTbigf
test.

If you think that's wrong for a particular dialect, contact me
via e-mail at <abe@purdue.edu>.

Make sure "lsof" appears in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

3.43.2.2 Why does LTbigf complain about operations on its config.LTbigf*
file?

The LTbigf must be able to write a large file test (size
> 32 bits) and seek within it and the process file ulimit
size must permit the operation. If the default location
for the test file, tests/, isn't on a file system enabled
for large file operations or if the process ulimit file
block size is too small, lsof will get file operation
errors, particularly when seeking

There may be a work-around. Specify the path to a file
LTbigf can write in a file system enabled for large file
operations a the -poption. Make sure that the ulimit file
block size permits writing a large file. For example,
presuming /scratch23 is large-file-enabled, and presuming
you have permission to raise the ulimit file block size,
this shell commands will allow the LTbigf test to run on
AIX:

```
   $
./LTbigf -p /scratch23/abe/bigfile
```

(Note: syntax for the ulimit command varies by dialect and
by shell. Discovering the proper variant is left to the
reader.)

More information on this subject can be found in the LTbigf
description in the 00TEST file. If course, the LTbigf.c
source file in tests/ is the ultimate source of information,

3.43.2.3 Why does LTbigf warn that lsof doesn't return file offsets?

On some dialects (e.g., Linux) lsof can't report file
offsets, because the data access method underlying lsof
doesn't provide them. If LTbigf knows that lsof can't
report file offsets for the dialect, it issues this warning:

```
   LTbigf ... WARNING!!! lsof can't return file offsets
  for this dialect, so offset tests have
  been disabled.
```

LTbigf then performs the size test and skips the offset
tests.

For more information see 00TEST and the "Why doesn't /proc-based lsof report file offsets (positions)?" Q&A of this file.

3.43.3 Why does the LTbasic test complain "ERROR!!! lsof this ..." and "ERROR!!! lsof that ..."?

The LTbasic test program uses lsof to examine a running lsof process. It looks for the lsof current working directory, executable (if possible), and kernel memory file (if applicable).

Failures to find those things result in the LTbasic error messages. More information on how LTbasic produces the error messages may be found in the LTbasic.c source file.

On HP-UX 11.11 and higher, for example, if the test's current working directory is on a loopback (LOFS) file system, LTbasic won't be able to find the current working directory of the lsof process because of a bug in the HP-UX kernel.

The solution for that HP-UX problem is to install an HP-UX patch. See the answer to the "Why doesn't PSTAT-based lsof report a CWD that is on a loopback (LOFS) file system?" question for more information on the patch.

3.43.4 NFS test issues

3.43.4.1 Why does the LTnfs test complain "couldn't find NFS file ..."?

The LTnfs test must work with an NFS test file. After it opens the file it asks lsof to find it on an NFS file system. If the file isn't on an NFS file system, lsof won't find it, and the NFS test script complains and fails.

The work-around is to use -p option to supply a path to a regular NFS file (not a directory) that is on an NFS file system that LTnfs can read. Presuming /share/bin/file is such a file and can be opened for reading by the LTnfs test, this sample shell command could be used to run the LTnfs test successfully:

```
$ ./LTnfs -p /share/bin/file
```

(If the NFS file system is enabled for large files, the

NFS test will produce the error message described in the
following Q&A.)

3.43.5 LTnlink test issues

3.43.5.1 Why does the LTnlink test complain that its test file is on
an NFS file system?

The LTnlink test may complain:

LTnlink ... WARNING!!! test file <path> is NFS mounted.

and then issue an explanation and a hint about using the
-p option.

The LTnlist
test does this because of the way NFS file
links are managed when an NFS file is unlinked and the
unlinking process still has the file open. Unlike with
files on a local file system, when an NFS file that is
still open is unlinked, its link count is not reduced.

The file name is changed to a name of the form .nfsxxxx
and the link count is left unchanged until the process
holding the file open closes it. That's done by NFS so it
can keep proper track of the file on NFS clients and servers.

Since the link count isn't reduced when the LTnlink test
program closes the NFS test file it still has open, lsof
won't find it for LTnlink with a link count of zero.
Consequently, LTnlink disables that test section and issues
its warning.

The warning suggests that the unlink test section can be
run by giving LTnlink a path to a test file with the -p
option. That path must name a file LTnlink can write and
unlink. Presuming /scratch23/abe/nlinkfile is on a local
file system
and the LTnlink test can write to it and unlink
it, this sample shell command can be used to run the complete
LTnlink test successfully:

$ LTnlink -p /scratch23/abe/nlinkfile

3.43.5.2 Why does LTnlink delay and report "waiting for link count
update: ..."?

On some UNIX dialects and file system combinations the

updating of link count after a file has been unlinked can
be delayed. Consequently, lsof won't be able to report
the updated link count to LTnlink for a while.

When lsof doesn't report the proper link count to LTnlink,
it sleeps and repeats the lsof call, using the "waiting
for link count update: ..." message as a signal that it is
waiting for the expected lsof response. The wait cycle
duration is limited to approximately one minute.

3.43.5.3 Why does LTnlink fail because of an unlink error?

LTnlink may fail with an error similar to:

    LTnlink ... ERROR!! unlink(<name>) failed: (Permission denied).

That message will be followed by a short explanation.

The
error means that the kernel support for the file system on
which the file <name> resides does not allow a process to
unlink a file while it has the file open. (When LTnlink is run
without the "-p path" option, it creates a <name> that begins
with "./config.LTnlink" and ends with the LTnlink process ID
number.)

An unlink failure of this type runs counter to original UNIX
file system behavior, but it has been observed on some file
system types, especially on the ZFS file system.

The work-around is to run LTnlink on a file system that allows
a process to unlink a file it has open. Usually /tmp has that
support. So, try running LTnlink this way:

    $ ./LTnlink -p /tmp/<name>

where <name> is a unique name in /tmp of your choosing. To
be safe, create a subdirectory in /tmp, named by your login:

    $ rm -f /tmp/<login>
    $ mkdir /tmp/<login>
    $ ./LTnlink -p /tmp/<login>/<name>

3.43.6 LTdnlc test issues

3.43.6.1 Why won't the LTdnlc test run?

Lsof

is unable to access the DNLC cache on AIX, because the
kernel symbols for the DNLC aren't exported. Contact IBM
to learn why that decision was made.

The LTdnlc test won't work on Apple Darwin because lsof
can't obtain reliable DNLC information.

The LTdnlc test may fail on other dialects. Failure causes
include: a busy system with a DNLC that is changing rapidly;
path name components too large for the DNLC; a file system
-- e.g., NFS, /tmp, loopback -- which doesn't fully
participate in the DNLC; or DNLC limitations (Many DNLC
implementations will only store path name components if
they are 31 characters or less.)

If you suspect the file system doesn't fully participate
in kernel DNLC processing, as a work-around rebuild and
test lsof on one that does.

3.43.6.2 What does the LTdnlc test mean by "... <path> found: 100.00%"?

Even when it succeeds the LTdnlc test will report:

```
LTdnlc ... /export/home/abe/src/lsof4/tests found: 100.00%
```

This message means that
the LTdnlc test asked lsof to find
the file at the indicated path five times and lsof found
the full path name in the indicated percentage of calls.
The LTdnlc test considers it a failure if the percentage
falls below 50.0%

3.43.6.3 Why does the DNLC test fail?

The DNLC test may fail when some component of the lsof
tests/ sub-directory can't be cached by the kernel DNLC.
Some kernels have a limit on the length of individual
components (typically) 32.

3.43.7 Why hasn't the test suite been qualified for 64 bit HP-UX
11 when lsof is compiled with gcc?

When I attempted to qualify lsof for HP-UX 11, compiled
with gcc 3.0, the LTsock test failed. I traced the failure
to a gcc compilation error. Because LTsock is an important
test, I didn't feel that the test suite was qualified if
it failed.

LTsock compiles and runs correctly on 64 bit HP-UX 11 when compiled with HP's ANSI-C.

3.43.8 LTszoff test issues

3.43.8.1 Why does LTszoff warn that lsof doesn't return file offsets?

On some dialects (e.g., Linux) lsof can't report file offsets, because the data access method underlying lsof doesn't provide them. If LTszoff knows that lsof can't report file offsets for the dialect, it issues this warning:

```
LTszoff ... WARNING!!!  lsof can't return file offsets
for this dialect, so offset tests have
been disabled.
```

LTszoff then performs the size test and skips the offset tests.

For more information see 00TEST and the "Why doesn't /proc-based lsof report file offsets (positions)?" Q&A of this file.

3.43.9 LTlock test issues

3.44 File descriptor list (the ``-d'' option) problems

3.44.1 Why does lsof reject a ``-d'' FD list?

Lsof rejects ``-d'' FD lists that contain both exclusions and inclusions with messages like:

```
lsof: exclude in an include list: ^1
lsof: include in an exclude list: 2
```

That's because ``-d'' FD lists are processed as ORed lists, so it makes no sense for them to contain both exclusions and inclusions.

I.e.,, if a ``-d'' FD list were to contain ``^cwd,1'', the ``^cwd'' member is useless, because the ``1'' member dominates by saying "include only FD 1". That effectively excludes ``cwd'' FD.

Note that lists may have multiple members of the same type, exclude or include. They are processed as an ORed set.

If an FD isn't excluded by any member of an exclude list, it is selected. If an FD is included by any member of an include list, it is selected.

3.44.2 Why are file descriptors other than those in my FD list reported?

The FD list that follows ``-d'' excludes or includes file descriptors, but unless the ``-a'' (AND) option is specified, the FD list selections are ORed to the other selections.

For example, the following lsof command will cause all file descriptors to be listed for the lsof command, and all but the cwd descriptor for all other commands, probably not what was intended.

```
$ lsof -clsof -d^cwd
```

Hint: use ``-a'' -- e.g.,

```
$ lsof -clsof
-a -d^cwd
```

3.45 How can I supply device numbers for inaccessible NFS file systems?

When lsof can't get device numbers for inaccessible NFS file systems via stat(2) or lstat(2), it attempts to get them from the mount table's dev=xxx options. Successes are reported with a warning message that indicates the source of the device number and that output might be incomplete as a consequence of the warnings.

Some system mount tables -- e.g., Linux /proc/mounts -- don't have a dev=xxx option. In that case, and provided lsof for the dialect supports them, you can use the +m option to create a mount table supplement file and the "+m m" option to use it.

First check the lsof -h (help) output to see if the +m and "+m m" options are supported. If they are, use +m to create a mount table supplement file when all mounted file systems are accessible. Use "+m m" later to make the supplement available when some mounted file systems might not be available.

Here's an example that
creates a mount supplement file in
$HOME/mnt-sup and later makes it available to lsof.

```
$ rm -f $HOME/mnt-sup
$ lsof +m > $HOME/mnt-sup
...
$ lsof +m $HOME/mnt-sup <other lsof options>
```

If lsof has to get the device number from the supplement, it will issue an informative warning message. The warning can be suppressed with lsof's -w option.

Caution! Since the mount table supplement file is static, it is its supplier's responsibility to update it as file system mounts change.

For more information, consult the lsof man page. The "ALTERNATE DEVICE NUMBERS" section has useful information on how lsof acquires device numbers when stat(2) or lstat(2) fail.

3.46 Why won't lsof find open files on over-mounted file systems?

When a file system, /xyz for example, is mounted on the same mount point as another file system, /abc for example, running lsof with an argument of the path of the first file system's mount point -- the over-mounted one, /abc -- probably will not
reveal any files open on /abc.

That's because lsof looks for open files on a file system by looking for files with the file system's device number. The two file systems usually have different device numbers and lsof determines the device number search key from the supplied name of the second file system.

A general work-around exists only for Linux. On that UNIX dialect, when you know the over-mounted file system's mount point path, you can ask lsof to report on all open files and grep that output for the path of the over-mounted file system mount point.

3.47 What can be done when lsof reports no more space?

Many lsof methods cache information in memory, using the dialects malloc() library function. When malloc() can't allocate the requested amount of memory, lsof exits with warning messages similar to this AIX message:

```
lsof: no more dev-ch space at pid 2257750: 0x82a8e600
```

Lsof then exits immediately and produces no more output.

A possible work-around
is to increase the memory foot print
of the shell that runs lsof. That is often done with the
ulimit(1) shell command.

3.48 What if the lsof build encounters ar and ld problems?

The lsof main and library Makefiles use the library archiver,
ar, and the system loader, ld, applications. Improperly
located, installed or configured versions of them may cause the
lsof build to encounter errors with them.

The application producing the error should identify itself in
its error messages.

The first thing to check the path of the application that is
being used. Try `which ar` or `which ld` to see if perhaps the
PATH used during the build might be causing the wrong archiver
or loader to be used.

If the problem is with the use of the wrong archiver, and it's
not possible to correct the PATH to it, try using the LSOF_AR
environment variable to specify the path to and arguments for
the correct archiver. See 00XCONFIG for more information and
note that LSOF_AR must
specify the path to the archive
application and the arguments for it, less the terminating
library and module name arguments.

If the problem is with the loader, there is no lsof work-
around. That's because lsof calls the loader via the C
compiler, so the problem must be fixed at the compiler (system)
level.

3.49 Why does lsof -i report an open socket file for a process, but
lsof -p on that process' ID report nothing?

The lsof in use was probably built with the HASSECURITY and
HASNOSOCKSECURITY options and the process in question does not
belong to the user of lsof.

The HASSECURITY option limits lsof output to processes owned
by the user invoking lsof and the HASNOSOCKSECURITY option
weakens that slightly to allow output of open socket file
information for all processes.

For example, if process PID 12345 is owned by some user other
than the one invoking lsof, and lsof has been compiled with the
HASSECURITY and HASNOSOCKSECURITY options, the following lsof
command
will display the open socket files of process 12345:

```
 $ lsof -p 12345 -a -i
```

This security restriction is described in the lsof(8) manual
page.

4.0 AIX Problems

4.1 What is the Stale Segment ID bug and why is -X needed?

Kevin Ruderman reports that he has been informed by IBM
that processes using the AIX 3.2.x, 4.1[.12345]], 4.2[.1],
and 4.3.x kernel's readx() function can cause other AIX
processes to hang because of what appears to be file system
corruption.

This failure, known as the Stale Segment ID bug, is caused
by an error in the AIX kernel's journaled segment memory
handler that causes the kernel's dir_search() function
erroneously to believe directory entries contain zeroes.
The process using the readx() call need not be doing anything
wrong. Usually the system must be under such heavy load
that the segment ID being used in the readx() call has been
freed and then reallocated to another process since it was
obtained from kernel memory.

Lsof uses the
readx() function to access library entry
structures, based on the segment ID it finds in the proc
structure of a process. Since IBM probably will never fix
the kernel bug, I've added an AIX-specific option to lsof
that controls its use of the readx() function.

By default lsof readx() use is disabled; specifying the
``-X'' option enables readx() use.

If you want to change the default readx() behavior of AIX
lsof, change the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE
definitions in dialects/aix/machine.h. You can also use
these definitions to enable or disable readx() -- consult
the comments in machine.h. You may want to disable readx()
use permanently if you plan to make lsof publicly executable.

When HASXOPT_ROOT is defined, lsof will restrict use of
the -X option to processes whose real UID is root; if
HASXOPT_ROOT isn't defined, any user may specify the -X
option. The Customize script offers the option to change
HASXOPT_ROOT when HASXOPT is defined and HASXOPT_ROOT
is
named in any dialect's machine.h header file.

I have never seen lsof cause a problem with its use of
readx(), but I believe there is some chance it could, given
the right circumstances.

4.1.1 Stale Segment ID APAR

Here are the details of the Stale Segment ID bug and IBM's
response, provided by Kevin Ruderman.

AIX V3
  APAR=ix49183
     user process hangs forever in kernel due to file
     system corruption
  STAT=closed prs TID=tx2527 ISEV=2 SEV=2
      (A "closed prs" is one closed with a Permanent
      ReStriction.)
  RCOMP=575603001 aix v3 for rs/6 RREL=r320

AIX V4 (internal defect, no apar #)
  prefix   p
  name   175671
  abstract   KERMP: loop for ever in dir_search()

Problem description:

1. Some user application -- e.g., lsof -- gets the segment
   ID (SID) for the process private segment of a target
   process from the process table.

2. The target process exits, deleting the process private
   segment.

3. The SID is
reallocated for use as a persistent segment.

4. The user application runs again and tries to read the
   user area structure from /dev/mem, using the SID it read
   from the process table.

5. The loads done by the driver for /dev/mem cause faults
in the directory; new blocks are allocated; the size
changed; and zero pages created.

6. The next application that looks for a file in the affected
directory hangs in the kernel's dir_search() function
because of the zero pages. This occurs because the
kernel's dir_search() function loops through the variable
length entries one at a time, moving from one to the
next by adding the length of the current entry to its
address to get the address of the next entry. This
process should end when the current pointer passes the
end of the known directory length.

However, while the directory length has increased, the
entry length data has not, so when dir_search() reaches
the zero pages, it
loops forever, adding a length of
zero to the current pointer, never passing the end of
the directory length. The application process is hung;
it can't be killed or stopped.

IBM closed the problem with a PRS code (Permanent ReStriction)
under AIX Version 3 and had targeted a fix for AIX 4.2. They
have recently (I became aware of it September 10, 1996)
cancelled the defect report altogether and have indicated they
are not going to fix the defect.

4.2 Gcc Work-around for AIX 4.1x

When gcc is used to compile lsof for AIX 4.1x, it doesn't
align one element of the user structure correctly. Xlc
sees the U_irss element as a type "long long" and aligns
it on an 8 byte boundary. That's because the default mode
of xlc is -qlonglong; when -qlonglong is enabled, the
_LONG_LONG symbol is also defined.

Gcc sees U_irss as a two element array of type long, because
_LONG_LONG isn't defined. Hence gcc aligns the U_irss
element array on a 4 byte boundary, rather than an
8 byte
one, making the gcc incantation of the user structure 4
bytes shorter than xlc's.

When the length of gcc's user structure is supplied as
argument 4 to the undocumented getuser() function of the
AIX kernel, getuser() rejects it as an incorrect size and
returns EINVAL.

Lsof has a work-around for this problem. It involves a special test in the Configure script when the "aixgcc" Configure abbreviation is used -- e.g.,

```
$ Configure -n aixgcc
```

The test is to compile a small program with gcc and check the alignment of U_irss. If it's not aligned on an 8 byte boundary, the Configure script makes a special copy of <sys/user.h> in ./dialects/aix/aix<AIX_version> whose U_irss will align properly, and generates compile time options to use it.

While I have tested this work-around only with 4.1.4, it should work with earlier versions of AIX 4.1. It does not work for AIX 4.2; a different work-around is employed there. (See the next section.)

If you want to use this technique to compile other AIX 4.1x programs with gcc for using getuser(), check the Configure script.

Stuart D. Gathman identified this gcc AIX alignment problem.

4.3 Gcc and AIX 4.2[.1]

Alignment problems with gcc and AIX 4.2[.1] inside the user structure are more severe, because there are some new 64 bit types in AIX that gcc doesn't yet (as of 2.7.x) support. The <sys/user.h> U_irss element problem, discussed in 4.3 above, doesn't exist in 4.2[.1].

The AIX lsof machine.h header file has a work-around, provided by Henry Grebler, that bypasses gcc alignment problems. Later versions of gcc (e.g., 2.8.x) will probably bypass the problems as well.

4.4 Why won't lsof's Configure allow the use of gcc for AIX below 4.1?

Gcc can't reliably be used to compile lsof for AIX versions below AIX 4.1 because of possible kernel structure element alignment differences between it and xlc.

4.5 What is an AIX SMT file type?

When you run AIX X clients with the DISPLAY environment variable
set to ``:0.0'' they communicate with the AIX X
server via files whose kernel file structure has an undefined
type (f_type == 0xf) -- at least there's no definition for
it in <sys/file.h>.

These are Shared Memory Transport (SMT) sockets, an artifact
of AIXWindows, designed for more efficient data transfers
between the X server and its clients.

Henry Grebler and David J. Wilson alerted me to the existence
of these files. Mike Feldman and others helped me identify
them as SMT sockets.

The curious reader can find more about SMT sockets in
/usr/lpp/X11/README.SMT.

4.6 Why does AIX lsof start so slowly?

When AIX lsof starts it compares the running kernel's
identity to the one for which it was built, using
/usr/bin/oslevel. That comparison can sometimes take a
long time to complete, depending on the system's maintenance
level and how recently it was examined with oslevel.

AIX revisions 4.67 and above for AIX 5 and above don't use
oslevel to determine
the kernel identity. They use uname(2)
instead, and it is much faster.

You can skip the oslevel test by suppressing warning messages
with lsof's -w option. Doing that carries with it the risk
of missing other warning messages, however.

You can also disable the kernel identity check by disabling
the definition of the HASKERNIDCK symbol by editing AIX
machine.h header file or by using the Customize script to
disable it.

See the "Why does lsof warn "compiled for x ... y; this is
z.?" section for more information.

4.7 Why does exec complain it can't find libc.a[shr.o]?

When you try to execute lsof you may get this complaint:

    exec(): 0509-036 Cannot load program ./lsof because of

the following errors:
0509-022 Cannot load library libc.a[shr.o].
0509-026 System error: A file or directory in
the path name does not exist.

This is probably the result of making lsof when the LIBPATH environment variable contained a directory path that doesn't contain
libc.a. You can see what LIBPATH contained when lsof was made by using the dump application on lsof. For example, if LIBPATH contained /foo/bar when lsof was made, you will see this (partial) dump output:

```
$ dump -H lsof
...
***Import File Strings***
INDEX  PATH                    BASE        ...
0      /foo/bar
```

To correct the problem, revisit the lsof source directory and remake lsof this way:

```
$ unset LIBPATH; make  (sh or ksh)
```
or
```
% unsetenv LIBPATH; make  (csh or tcsh)
```

4.8 What does lsof mean when it says, "no PCB, CANTSENDMORE, CANTRCVMORE" in a socket file's NAME column?

When an AIX application calls shutdown(2) on an open socket file, but hasn't called close(2) on the file, the file will remain visible to lsof as an open socket file without any extended protocol information.

Lsof reports that state in the NAME column by saying that there is "no PCB" (Protocol Control Block) for the protocol (e.g., TCP in the NODE
column). If the open socket file has the state variables SO_CANTSENDMORE and SO_CANTRCVMORE set -- i.e., from the shutdown(2) call -- lsof reports them with the CANTSENDMORE and CANTRCVMORE notes in the NAME column.

4.9 When the -X option is used on AIX 4.3.3, why does lsof disable it, saying "WARNING: user struct mismatch; -X option disabled?"

The -X option causes lsof to read the loader information of the user structure from virtual memory via the readx()

system call. It does that with the user structure definition from <sys/user.h> that was compiled into the lsof executable.

On AIX 4.3.3 there are two different user structure definitions in two separate <sys/user.h> header files, distributed at different times by IBM. If lsof was compiled with one and the kernel on which lsof is being run was compiled with the other, lsof normally won't get correct loader information when it calls readx().

In an attempt to compensate for that difference, lsof makes an independent check of the loader information by getting the user structure's open file count via readx() and comparing it to the open file count obtained independently via getprocs(). When the two counts don't match, lsof tries to read the count (and re-read the loader information) with two offsets, based on observed differences between the two user structures.

When one of the three attempts produces a correct open file count, lsof uses its corresponding offset on subsequent readings of the loader information.

When none of the three attempts produces a correct open file count, lsof issues the WARNING message and disables -X processing.

To eliminate this problem, obtain an lsof binary that matches the kernel of the AIX 4.3.3 system where you want to run lsof. Compiling lsof on the target system is the preferred way to get a matching binary.

4.10 Why doesn't the -X option work on my AIX 5L or 5.[123] system?

If your AIX 5L or 5.[123] system uses the ia64 architecture, lsof needs setuid-root permission to be able to do the processing that -X requires.

Check the output of `uname -a` to determine the architecture type.

The work-around is to give lsof setuid-root permission.

4.11 Why doesn't /usr/bin/oslevel report the correct AIX version?

The oslevel man page says, "The oslevel command reports

the level of the operating system using a subset of all
filesets installed on your system."

You can see which fileset is below the expected level with
oslevel's -l option. For example, if you believe your
system is at AIX level 4.3.3, but oslevel reports 4.3.2,
use this oslevel command to find the filesets below 4.3.3:

    $ /usr/bin/oslevel -l 4.3.3.0

If you don't know what level argument to supply to oslevel's
-l option, use oslevel's -q option first.

4.11.1 Why doesn't /usr/bin/oslevel report the correct AIX version
on AIX 5.1?

The subset list for oslevel on AIX 5.1 seems to include at
least two filesets, xlsmp.msg.en_US.rte and xlsmp.rte,
that
do not install from AIX 5.1 media with a 5.1.0.0 level.
Hence, oslevel reports 5.0.0.0 instead of the expected
5.1.0.0.

If either xlsmp.msg.en_US.rte or xlsmp.rte is installed,
lsof's Configure script and run-time tests will identify
the AIX version incorrectly. The run-time test will
issue a complaint message of this form:

    lsof: WARNING: compiled for AIX version xxx; this is yyy.

You can correct the Configure test by pre-defining the
oslevel value, setting the correct value in the LSOF_VSTR
environment variable before running the Configure script
-- e.g., to pre-define AIX 5.1 when using ksh, do this:

    $ LSOF_VSTR=5.1.0.0 Configure -n aix

You can't affect oslevel output without uninstalling
xlsmp.msg.en_US.rte and xlsmp.rte. If you can't do that,
you'll have to put up with the run-time complaint.

4.12 Why does lsof for AIX 5.1 or above Power architecture
complain about kernel bit size?

When you run an lsof binary on an AIX 5.1 or above Power
system,
it might complain:

```
    lsof: FATAL: compiled for a 32 bit kernel.
   The bit size of this kernel is 64.
or
    exec: 0509-036 Cannot load program ./lsof because of
     the following errors:
         0509-032 Cannot run a 64-bit program on a 32-bit
     machine.
```

Starting at lsof revision 4.61, lsof binaries for Power architecture systems running AIX 5.1 or above are closely tied to the kernel bit size. Lsof must do that so it can read and understand kernel structures.

Lsof's Configure script tunes the lsof configuration so that the binary built in the make(1) step is adjusted to the kernel bit size.

An lsof binary knows the bit size for which it was constructed, tests the bit size of the kernel under which it is running, and objects if the two sizes don't match. To see the bit size for which lsof was constructed, run it with its -v option and look for these lines in the output:

```
    configuration info: 32 bit kernel
 or
    configuration info:
64 bit kernel
```

(Note: these lines will appear only in -v output for AIX 5.1 and above lsof binaries, built for Power architecture.)

You can see the kernel bit size test method in the aix stanza of the lsof Configure script and in the get_kernel_access() function of the lsof .../dialects/aix/dproc.c source file.

There is more information on pre-defining the kernel bit size when building lsof in Configure, 00PORTING, and 00XCONFIG.

The only work-around is to use an lsof binary built to match the running kernel bit size.

4.13 What can't gcc be used to compile lsof on the ia64 architecture for AIX 5 and above?

Gcc can't be used to compile lsof on the ia64 architecture for AIX 5 and above because I haven't had access to a system that has a working gcc compiler. The gcc compiler on my

one and only ia64 AIX 5.1 test system, provided by IBM,
didn't work at all.

4.14 Why does lsof get a segmentation fault when compiled with gcc
for a 64 bit Power architecture AIX 5.1 kernel?

When
lsof is configured with the lsof "aixgcc" Configure
abbreviation, the resulting lsof executable may cause a
segmentation violation when it is run. I've observed this
with gcc version 2.9-aix43-010414-7.

As far as I have been able to tell, the segmentation fault
is the result of a gcc compilation, loading, or library
error. Watching lsof run with gcc's companion debugger,
gdb, shows no error in the lsof source code that might
explain the fault.

The only work-around I know is to use the IBM C compiler
in place of gcc -- i.e., use the "aix" lsof Configure
abbreviation.

4.15 Why does lsof ignore AFS on my AIX system?

The lsof Configure script quits on AIX when AFS is present,
the AIX version is greater than 4.3.3.0 or the AFS version
is greater than 3.5. That's because I have no test systems
available for those AIX and AFS version combinations.

When the lsof Configure script detects an AIX and AFS
version combination that is unsupported, it will report:

```
!!!FATAL: Lsof does not support AFS on this combination of
    AIX and AFS versions.  To disable AFS, set the
    value of the AIX_HAS_AFS environment variable to
    "no".
```

The only work-around is to set the AIX_HAS_AFS environment
variable as explained in the error message:

```
$ AIX_HAS_NSF=no; export AIX_HAS_NFS
$ ./Configure -n aix
```

4.16 Why does lsof report "system paging space is low" and exit?

When AIX paging space runs low, the AIX kernel sends a SIGDANGER
signal to processes, warning them that they should reduce their

memory usage.

When lsof receives that signal, it issues the following fatal error message and exits:

    lsof: FATAL: system paging space is low.

A possible work-around is to limit the amount of information lsof must cache in its process memory with the "-c", "-g", "-l" and "-p" options.

Also see the answer to the "What can be done when lsof reports no more space?" question.

4.17 Why does lsof have a compilation problem on AIX 5.3 above maintenance level 1?

On some AIX 5.3 systems with maintenance levels 2 and higher installed, lsof 4.77 and below may not compile properly. The compiler complains the snapshotObject structure definition, needed by <j2/j2_inode.h>, is missing.

That problem is fixed in the 4.78 revision.

5.0 Apple Darwin Problems

5.1 What do /dev/kmem-based and libproc-based mean?

Lsof for Apple Darwin currently uses /dev/kmem to read kernel data structures from which it gathers and reports open file information. That version of lsof is called /dev/kmem-based lsof.

At an upcoming release lsof will use a library called libproc to obtain information about open files. That version of lsof wil be called libproc-based lsof.

The /dev/kmem-based lsof sources may be found in the kmem subdirectory of the dialects/darwin branch of the lsof source tree. When the supporting version of Apple Darwin is released, the libproc-based lsof sources will be found in .../dialects/darwin/libproc.

5.2 /dev/kmem-based Apple Darwin Questions

5.2.1 Why does Configure ask for a path to the Darwin XNU kernel header files?

When lsof was ported to Apple Darwin by Allan Nathanson at revision 4.53, some kernel header files needed by lsof weren't being exported by the developers. (That's still true at lsof revision 4.76.)

At first a shell script that Allan provided would get the missing header files by checking them out from the CVS root. Although the script was updated from time to time, eventually the re-organization of Darwin sources has made it impossible to update the script to do an automatic download of the missing header files.

At lsof revision 4.69 and above it is necessary for the Darwin lsof builder to download the Darwin XNU kernel headers before attempting to build lsof. The download my be done via a web browser, starting at this URL:

http://www.opensource.apple.com/darwinsource/index.html

Once there, select the link to the Mac OS X version that matches the one on the system where lsof is to be built.

Follow that link's "[Source]" link. Once there, select the tar.gz link of the xnu* entry near the bottom of the page. That entry should have a name that matches the xnu* name shown by `uname -a` -- e.g., if uname reports:

```
$ uname -a
... root:xnu/xnu-517.7.21 ...
```

Then the appropriate xnu* entry is xnu-517.7.21. Clicking its link should lead to an "Apple Open Source" page requesting an Apple ID and password.

Enter them if they're available. If an Apple ID and password are not available, get them by following the instructions on the page -- i.e., follow the signin.apple.com link.

Once a valid Apple ID and its password have been entered, the download will begin. Select the saving of the downloaded xnu*.tar.gz file in an appropriate place on the Mac OS X system.

Once the download completes, install it. Use gunzip to

decompress the download and tar to extract the archive -- e.g.,

```
$ gunzip -c xnu-517.7.21.tar.gz | tar xf -
```

Remember the absolute path to the extracted archive. That is its installed place. E.g., if the xnu-517.7.21.tar archive was extracted to the lsof builder's home directory, its full installation path will be something like:

```
~/xnu-517.7.21
```

Now run the lsof Configure script. When it asks for the path to the installed Darwin XNU kernel header files, supply the path to the gunzip'd and extracted xnu* archive -- e.g., ~/xnu-517.7.21.

The path to the Darwin XNU kernel headers may also be supplied to the Configure script in the DARWIN_XNUDIR environment variable, eliminating the need to enter it interactively -- e.g.,

```
$ DARWIN_XNUDIR=~/xnu-344.49 ./Configure -n darwin
```

5.2.1.1 Why does Configure complain that Darwin XNU kernel header files are missing?

These are some reasons why the lsof Configure script might claim that Darwin XNU header files are missing:

* The wrong path to them was specified.

* The files and directories in the path are not readable and searchable -- i.e., check the modes and ownerships.

* The downloaded archive doesn't match the Mac OS X version of the system.

If in doubt, revisit the Darwin XNU kernel header file download instructions in the answer to the question "Why does Configure ask for a path to the Darwin XNU kernel header files?"

If Configure still can't find Darwin XNU kernel header files, contact me via e-mail at <abe@purdue.edu> for help. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

5.2.2 Why doesn't Apple Darwin lsof report text file information?

At the first port of lsof to Apple Darwin, revision 4.53, insufficient information was available -- logic and header files -- to permit the installation of VM space scanning for text files. As of lsof 4.70 it is sill not available.

Text file support will be added to Apple Darwin lsof after the necessary information becomes available.

5.2.3 Why doesn't Apple Darwin lsof support IPv6?

At the first port of lsof to Apple Darwin, revision 4.53, Apple Darwin lacked IPv6 support. IPv6 became available in Apple Darwin version 1.5 and support for it was added to lsof then.

5.2.4 Why does lsof complain about a mismatch between the release for which lsof was compiled and the booted Mac OS X release?

When lsof is started on the "Gold Master" Darwin release (aka Mac OS X), it complains:

```
lsof: compiled for 1.0 release; this is 1.3.2.
```

This happens because the lsof binary released with Mac OS X was built on a system whose release number (1.0) doesn't match that of the released system -- usually 1.3.x Lsof makes this check because UNIX dialect OS changes are often accompanied by header file changes that affect lsof.

In this specific case, this error can be ignored. If you don't want to do that, get the lsof distribution and build lsof so its built-on and running-on Mac OS X release numbers match.

5.2.5 Why does lsof for Apple Darwin 8 and higher report "stat(...): ..." in the NAME column?

Lsof for Apple Darwin 8 may report messages like these in the NAME column:

```
stat(/private/var/run/asl_prune): No such file or directory
```

or

```
stat(/private/var/db/netinfo/local.nidb/Config): Permission denied
```

Those messages indicate that lsof was unable to collect open file information for the paths enclosed in "stat(...)" with the stat(2) function, because the function encountered the reported error.

A work-around for the "Permission denied" error is to run lsof with elevated privileges -- e.g., when logged on as the super user.

If the stat(2) error message is "No such file or directory", the file probably has been unlinked (removed) and there is no lsof work-around.

5.2.6 What are the limitations of Apple Darwin lsof link count reporting?

Lsof for Apple Darwin cannot report link count information reliably.

For Apple Darwin below 8 link count information is not always available in the kernel node structures available to lsof. When link count information is available, however, it includes link counts of zero. Thus, using lsof's +L1 option may result in the finding of some files whose link counts are zero.

Lsof can report only some link count information for Apple Darwin 8 and above. Link count information is only available for files where lsof can assemble the full file path and has permission to apply stat(2) to it. (See the answer to the "Why does lsof for Apple Darwin 8 and higher report "stat(...): ..." in the NAME column?" question for more information on stat(2) failures.)

Apple Darwin 8 and above files that have been unlinked and thus have a link count of zero cannot be found by stat(2) -- i.e., stat(2) returns a "No such file or directory" error. As a result lsof never displays link counts of zero and the use of lsof's +L1 option to find them always fails.

5.2.7 Why does Apple Darwin report process group IDs incorrectly?"

The kmem version of lsof for Apple Darwin does not report process group IDs correctly when requested to do so with its ``-g" option. This is a bug that surfaced after the libproc version was released and access to kmem test systems has

prevented patching the bug.

If you are using the kmem version and would like a fix for this problem, please send e-mail to me <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

5.3 Libproc-based Apple Darwin Questions

6.0 BSD/OS BSDI Problems

6.0.5 Statement of deprecation

As of lsof revision 4.76 support for BSDI BSD/OS has been dropped. The 4.76 distribution of lsof for BSDI BSD/OS may be found on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

7.0 DEC OSF/1, Digital UNIX, and Tru64 UNIX Problems

7.1 Why does lsof complain about non-existent /dev/fd entries?

When you run lsof for Digital UNIX 3.2, lsof may complain:

```
lsof: can't lstat /dev/fd/xxx: No such file or directory
lsof: can't lstat /dev/fd/yyy: No such file or directory
```

(Or it may warn about other missing /dev/fd paths.) When you do an ``ls /dev/fd" none of the missing paths are listed.

This is caused by a bug in the DEC library function getdirentries(). For some reason, when /dev/fd is a file system mount point, getdirentries() returns an incorrect size for it to readdir(). (Lsof calls readdir() in its ddev.c readdev() function.) Because of the incorrect size, readdir() goes past the end of the /dev/fd directory buffer, encounters random paths and returns them to lsof. Lsof then attempts to lstat(2) the random paths, gets error replies from lstat(2), and complains about the paths.

Duncan McEwan discovered this error and has reported it to DEC. Duncan also supplied an alternate readdir() function as a work-around. I've incorporated his readdir() in dialects/osf/ddev.c (as the static ReadDir() function) with
some slight modifications, and enabled its use when the

USELOCALREADDIR symbol is defined.

The Configure script defines USELOCALREADDIR for Digital UNIX version and 3.2. If you don't want to use Duncan's local readdir() function, edit the Makefile and remove -DUSELOCALREADDIR from the CFGF string. When DEC releases a corrected getdirentries() function, I'll modify the Configure script to stop defining USELOCALREADDIR.

7.2 Why does the Digital UNIX V3.2 ld complain about Ots* symbols?

When you compile lsof on your Digital UNIX V3.2 system, ld may complain:

```
ld:
Unresolved:
knlist
_OtsRemainder32Unsigned
_OtsDivide64Unsigned
_OtsRemainder64Unsigned
_OtsDivide32Unsigned
_OtsMove
_OtsDivide32
_OtsRemainder32
*** Exit 1
```

Chris Eleveld reports this happens on Digital UNIX V3.2 systems after the Fortran compiler has been installed.

The best work-around seems to be to remove -lmld from the CFGL string in the Makefile produced by Configure -- i.e., change:

```
CFGL=    -lmld
```

to

```
CFGL=
```

According to the V3.2 man page for nlist(3), this shouldn't work, but my testing shows that it does. Although I haven't been able to test this second work-around, you might try adding -lots to CFGL, rather than removing -lmld -- i.e., change:

```
CFGL=    -lmld
```

to

```
CFGL=    -lmld -lots
```

WARNING: my testing also shows that the V2.0 nlist(3) man
page means what it says when it calls for -lmld -- lsof
loaded without -mld under V2.0 can't locate the proc
(process) table address.

DON'T REMOVE -lmld FROM THE DIGITAL UNIX V2.0 MAKEFILE.

If you run into this problem, please let me know what
problem you encountered and how you solved it.

7.3 Why can't lsof locate named pipes (FIFOs) under V3.2?

While lsof for V3.2 can report on named pipes (FIFOs), it
can't find them by name. That appears to happen because
of the way the V3.2 kernel lstat(2) function reports named
pipe device numbers.

The
V3.2 kernel reports the device number as 0xffffffff,
while the kernel structures for named pipes that lsof
examines contain the device number of the file system on
which the named pipe resides.

Consequently, lsof can't match the device and inode number
pair it receives from applying lstat(2) to the named pipe
with any device and inode number pair it finds when scanning
kernel structures.

I don't have a work-around. You can, of course, ask for
full lsof output and use a post-processing filer (e.g.,
grep) to locate the named pipe of interest.

This problem doesn't exist under V2.0.

7.4 Why does lsof use the wrong configuration header files?
For example, why can't the lsof compilation find cpus.h?

DEC OSF/1, Digital UNIX, and Tru64 UNIX configuration header
files describe the hardware and software environment for
which your kernel boot file was constructed. For example,
/sys/<name>/cpus.h defines the number of CPUs in its NCPUS
#define.

Lsof searches for
the configuration header file subdirectory
in /sys (/usr/sys for Digital UNIX version 4.0 and Tru64
UNIX) by converting the first host name component to capital
letters -- e.g., TOMIS is derived from tomis.bio.purdue.edu.

If that subdirectory exists, lsof uses header files from
it. (Configure reports what subdirectory is being used.)

If Configure doesn't find a host-name derived subdirectory,
it prompts you for the entry of a subdirectory name. If
you can't find one, quit Configure and run the kernel
generation process to create a proper configuration sub-
directory. If you don't identify a proper configuration
subdirectory and you try to compile lsof, the compiler will
complain about missing header files -- e.g., a missing
cpus.h.

Once you have located or generated a proper configuration
subdirectory, rerun Configure. If you have generated a
configuration subdirectory whose name is derived from the
host name, Configure will find and use it. If not, you
will
have to specify its name to Configure.

7.5 Why does lsof indicate incomplete paths with " -- " for Tru64
UNIX 5.1 files?

When lsof can't find a component of a path in the kernel's
name cache (aka DNLC), or can't determine that the left-most
component has as its parent the file system root, it uses
an "incomplete path" notation. That notation begins with
the file system root name, followed by " -- ", followed by
the consecutive path name components lsof was able to find
in the DNLC -- e.g., "/ -- init".

Because the DNLC was significantly redesigned in Tru64 UNIX
5.1, lsof's handling of the cache had to be completely
redone. As part of the DNLC redesign a name cache entry
parameter lsof formerly used to locate the file system root
of a path was removed. With help from Chang Song I've been
able to implement an alternate method for detecting the
root of these file system types: AdvFS (MSFS), CDFS, DVDFS,
FDFS, NFS, NFS3, and UFS.

When lsof doesn't know how to identify
the root for a file
system type, it will resort to the " -- " incomplete path
notation.

7.6 Why doesn't lsof report link count, node number, and size
for some Tru64 5.x CFS files?

Lsof reports link count, node number, and size for open

CFS files as recorded in their kernel node structure's cached attributes. Sometimes not all attributes are cached on the system where lsof runs, so lsof cannot report them.

7.7 Why does lsof say it can't read the kernel name list or proc table on Digital UNIX 4.x or Tru64 UNIX?

By default on Digital UNIX 4 and Tru64 UNIX lsof reads the addresses for kernel symbols with the knlist(3) function. That function can fail, for example, when the kloadsrv daemon isn't running or is malfunctioning. When that happens, lsof may abort with one of these error messages:

```
  lsof: can't read kernel name list from knlist(3): ...
or
  lsof: can't read proc table info
```

The first message suggests a complete knlist(3) or kloadsrv failure;
the second, a partial one.

If you know the name of the file from which the running system was booted, e.g., /vmunix, you can use lsof's -k option to direct it to read kernel symbol addresses from the name list of that file --

```
  $ lsof -k /vmunix ...
```

If that works, then knlist(3) is malfunctioning and you need to fix it.

8.0 FreeBSD Problems

8.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open FreeBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

8.2 Why doesn't lsof work on my FreeBSD system?

If lsof doesn't work on your FreeBSD system, first make sure you have the latest lsof revision. See the answer to the "Where do I get lsof?" question for information on how to get the latest lsof revision.

Once you have gotten the latest lsof revision, Configure

and make it. If Configure fails -- e.g., it complains about an unknown FreeBSD version -- then lsof probably hasn't
been ported to your FreeBSD version yet, and there's no need to go any further. Follow the answer to the "How do I report an lsof bug" to report the Configure complaint to me.

If you are able to Configure and make lsof, run its test suite. (See the answer to the "Is there a test suite?" question for more information on how to use lsof's test suite.)

If lsof still fails, make sure your kernel sources, kernel header files, kernel boot file, standard header files and libraries are synchronized. They should all be built from the same CVS refresh. (Don't forget to do a "make buildworld" followed by a "make installworld".) If they aren't, then the KVM library or lsof may be using kernel structure definitions that don't match the booted kernel; or lsof may fail to compile properly because of header files in /usr/src/sys/sys and /usr/include/sys that don't match.

If you have synchronized your kernel, header files and libraries, and still can't get lsof to work, follow
the
steps in the answer to the "How do I report an lsof bug" question to report the problem to me.

8.3 Why doesn't lsof work on the RELEASE version of CURRENT?

Lsof tracks the CURRENT release of the current leading edge FreeBSD version, because my access to leading edge FreeBSD is limited to FreeBDSD.org reference systems, all running the CURRENT release.

Sometimes that tracking leads to changes in lsof that won't work on an earlier RELEASE version of the current leading edge version.

When that happens, please send e-mail to me <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

8.4 Why does kvm_open() complain it can't find some file?

If lsof issues this complaint:

lsof: kvm_open(execfile=/boot/kernel/kernel,
corefile=/dev/mem: No such file or directory

Your FreeBSD system might not have a /dev/mem device. If not, create one -- e.g., as root do:

mknod /dev/mem c <major> 0

chmod 440 /dev/mem
chgrp kmem /dev/mem

For <major> use /dev/kmem's major device number.

You may have to run kldload, too -- again as root do:

kldload mem

8.5 FreeBSD ZFS Problems

8.5.1 Why does FreeBSD lsof report "WARNING: no ZFS support has been defined."?

Lsof issues that message when it detects a file on a ZFS file system, but has not been built with support for ZFS. Lsof's Configure script detects support can be added for ZFS when it finds this file:

/usr/src/sys/contrib/opensolaris/uts/common/fs/zfs/sys/zfs_znode.h

That header file and others in the OpenSolaris files in /usr/src enable lsof to extract information about ZFS files from the kernel structures associated with them.

8.6 Why can't Configure create lsof_owner.h for FreeBSD 6 and above?

Lsof may report:

Creating ./lockf_owner.h from /usr/src/sys/kern/kern_lockf.c
FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c
FATAL ERROR: ./lockf_owner.h creation failed (see 00FAQ)

or

Creating ./lockf_owner.h from /usr/src/sys/kern/kern_lockf.c
FATAL ERROR: ./lockf_owner.h creation failed (see 00FAQ)

Those messages mean that lsof's Configure script failed to create a local header file, ./lockf_owner.h, needed to use the new kernel file locking code of some versions of FreeBSD 6 and

above.

The changes that implement that new locking code alter the lockf structure in <sys/lockf.h> and introduce a new structure, lockf_entry, to that header file. When Configure detects the presence of the lockf_entry definition in <sys/lockf.h>, it tries to construct the local header file, ./lockf_owner.h.

Configure has to do that because an unfortunate side effect of the new kernel file locking code is that <sys/lockf.h> doesn't contain the lockf_owner structure definition referenced in its own lockf structure. Lsof needs to access elements of that lockf_owner structure to determine if a lock belongs to the process that has a file open.

The
missing lockf_owner structure definition is in the kernel source file, typically /usr/src/sys/kern/kern_lockf.c. Configure tries to extract the lockf_owner structure definition from kern_lockf.c into lsof's local header file, ./lockf_owner.h. If Configure can't do that, it reports:

```
FATAL ERROR: ./lockf_owner.h creation failed
```

If Configure can't even read kern_lockf.c, it first reports:

```
FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c
```

The work-around for this problem is to update the FreeBSD kernel /usr/src tree (e.g., do a CVSup or csup) on the system where lsof is to be built and then do a "make buildworld" followed by a "make installworld".

8.6.1 Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?

If, when compiling lsof, the compiler complains with error messages like:

```
dnode.c: In function 'get_lock_state':
dnode.c:113: error: 'struct lockf' has no member named 'lf_flags'
dnode.c:115: error: 'struct lockf'
has no member named 'lf_id'
...
```

Then lsof is being built on a system that has new kernel file locking code and lsof's Configure script failed to build a local lockf_owner.h header file with a structure definition

lsof needs.

See the "Why can't Configure create lsof_owner.h for FreeBSD 6 and above?" section for more information and a work-around.

8.6.2 Why don't /usr/src/sys/sys/lockf.h and /usr/include/sys/lockf.h match?

This mismatch can cause the errors explained in the answer to the "Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?" question.

If /usr/src/sys/sys/lockf.h has been updated with a CVSup or csup, the new lockf.h won't be propagated to /usr/include/sys until the "make buildworld" and "make installworld" steps have been completed.

8.7 FreeBSD and clang

As of lsof revision 4.87, lsof may be compiled with clang.

8.7.1 Why does clang complain about VOP_FSYNC?

There is an error in the Solaris ZFS compatibility
vnode.h
header file with use of VOP_FSYNC before it is defined. No work-around is possible that will eliminate the clang compile-time warning message about the invalid declaration of the VOP_FSYNC function.

9.0 HP-UX Problems

9.1 What do /dev/kmem-based and PSTAT-based mean?

Lsof for HP-UX 11.0 and below uses /dev/kmem to read kernel data structures from which it gathers and reports open file information. That version of lsof is called /dev/kmem-based lsof.

Starting with HP-UX 10.10, finding definitions for the necessary kernel structures became more difficult as HP no longer distributed header files in /usr/include that defined all kernel structures. So I started "inventing" structure definitions by using Q4 to display them.

By HP-UX 11, the process of invention became extremely intensive to support. Following a patch to the ipc_s

structure in early 1999, my invented definition of that
structure became incorrect. Although I was able to devise
a work-around
test for the patch with Q4, it was clear that
my inventions were bound to cause more problems.

Discussion with HP about the patch led to my proposing that
an lsof API in the HP-UX kernel was the proper solution.
Much to my surprise, HP agreed. I believe Carl Davidson
was the prime mover behind that decision, but I know others
participated, among them Louis Huemiller, Rich Rauenzahn,
and Sailu Yallapragada. I am indebted to these folks and
HP for their willingness to do this work.

The API was added to the PSTAT interface in a project named
PEGL, Pstat Enhancements for Glance and Lsof. Louis and
Sailu did the bulk of the design and implementation work
and testing began in March, 2000

HP-UX 11.11 is the first version that provides PSTAT support
for lsof. HP-UX versions in between 11.0 and 11.11 -- all
Beta versions as far as I can determine -- have no lsof
support.

See the "PSTAT-based HP-UX lsof Questions" section for
questions and answers specific to PSTAT-based
HP-UX lsof.
The next section, "Why doesn't a /dev/kmem-based HP-UX lsof
compilation use -O?" covers /dev/kmem-based HP-UX lsof.

The /dev/kmem-based lsof sources may be found in the kmem
subdirectory of the dialects/hpux branch of the lsof source
tree. The PSTAT-based lsof sources may be found in
.../dialects/hpux/pstat.

9.2 /dev/kmem-based HP-UX lsof Questions

The sources for /dev/kmem-based lsof for HP-UX may be found
in lsof_<revision>/dialects/hpux/kmem.

Lsof's Configure shell script decides to use these sources
when it finds that the /usr/include/sys/pstat subdirectory
doesn't exist.

Lsof can be forced to use the /dev/kmem sources by setting
"/dev/kmem" in the HPUX_BASE environment variable. Consult
the Configure shell script and 00XPORTING for more information.

9.2.1 Why doesn't a /dev/kmem-based HP-UX lsof compilation use -O?

If you only have the standard (bundled) HP-UX C compiler
and haven't purchased and installed the optional one, then
you can't use
cc's -O option. The HP-UX cc(1) man page
says this:

"Options
Note that in the following list, the cc and c89 options
-A , -G , -g , -O , -p , -v , -y , +z , and +Z are
not supported by the C compiler provided as part of
the standard HP-UX operating system. They are supported
by the C compiler sold as an optional separate product."

Lsof's Configure script tries to detect what C compiler
product you have installed by examining your compiler. If
that examination reveals a standard (bundled) compiler,
lsof avoids using -O.

If the Configure compiler test fails, the C compiler will
complain that it doesn't support -O. You can suppress that
complaint with this make invocation:

$ make DEBUG=""

9.2.2 Why doesn't the /dev/kmem-based CCITT support work under 10.x?

Pasi Kaara, who originally provided the HP-UX CCITT support,
reports that it no longer works under HP-UX 10.x.
Consequently, at lsof revision 4.02 it has been disabled.

9.2.3 Why
can't /dev/kmem-based lsof be compiled with `cc -Aa` or
`gcc -ansi` under HP-UX 10.x?

Some HP-UX 10.x header files, needed by lsof, can't be
compiled properly in ANSI_C mode; structure element definition
and alignment problems result. The f_offset member of the
file structure, for example, is incorrect.

This ANSI-C obstacle extends to using the -Aa option of
the HP C compiler and the -ansi option of gcc.

9.2.4 Why does /dev/kmem-based lsof complain about no C compiler?

Lsof's Configure script looks in /bin and /usr/ccs/bin for
an HP C compiler, because it needs to know if the compiler

is the standard (bundled) one or the optional separate product. If it finds no compiler in either place, Configure quits after complaining:

No executable cc in /bin or /usr/ccs/bin

If you don't have a C compiler in either of these standard places, you should consider installing it. If you have gcc installed, you can use it by declaring the ``hpuxgcc'' abbreviation to lsof's
Configure script.

If you have a C compiler in a non-standard location, you can use the HPUX_CCDIR[12] environment variables to name the path to it. Consult the 00XCONFIG file of the lsof distribution for more information.

9.2.5 Why does Configure complain about q4 for /dev/kmem-based lsof for HP-UX 11?

When you run Configure on an HP-UX 11 system, it may complain:

```
!!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!
Configure can't use /usr/contrib/bin/q4 to examine the ipis_s
structure.  You must do that yourself, report the result in
the HPUX_IPC_S_PATCH environment variable, then repeat the
Configure step.  Consult the Configure script's use of
/usr/contrib/bin/q4 and the 00XCONFIG file for information
on ipis_s testing and the setting of HPUX_IPC_S_PATCH.
!!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!
```

This message states that Configure cannot use q4 from /usr/contrib/bin to examine the kernel's boot image for the ipis_s
structure. Maybe q4 hasn't been installed, or perhaps Configure can't execute it.

Lsof needs to gather information about ipis_s to determine if the ipis_s structure is defined in the kernel boot image, if the ipis_s structure of the kernel boot image has an ipis_msgsqueued member, and if the ipc_s structure of the kernel boot image uses has an ipc_ipis member.

The ipis_s structure isn't described in any header file HP-UX releases with HP-UX 11. It appears in the private lsof header file .../dialects/hpux/kmem/hpux11/ipc_s.h. Lsof gets local and remote connection addresses (IP and port numbers) from ipc_s, so an incorrect ipc_s definition

may cause incorrect reporting of TCP/IP connection addresses.
It definitely will cause incorrect reporting on 32 bit
kernels. In any case lsof should be compiled with a correct
ipc_s definition no matter the kernel bit size, so the
Configure script always tests for it when the HP-UX version
is 11.

For lsof's Configure script
to gather the necessary ipis_s
information q4 needs to be installed in /usr/contrib/bin
and the kernel boot image, /stand/vmunix, needs to have
been processed with pxdb. If either is untrue, lsof issues
the above error message, perhaps preceded by q4 messages.
(Note: lsof's use of q4 may also fail if q4 can't execute
nm -- e.g., it can't find /usr/bin/nm, or there is a
conflicting, private version of nm earlier in the path.)

If /stand/vmunix hasn't been processed by pxdb, the q4
messages will include:

    q4: (error) vmunix not pxdb'd
or
    q4: (warning) /stand/vmunix has not been processed by pxdb.

It's possible to make a suitable private copy of /stand/vmunix
for configuring lsof. That requires /opt/langtools/bin/pxdb
or the q4 version of pxdb from /usr/contrib/bin/q4pxdb.
The path to the result is supplied to the lsof Configure
script in the HPUX_BOOTFILE environment variable. Configure
still requires /usr/contrib/bin/q4.

The following sample Bourne shell
commands make a private
copy of /stand/vmunix in /tmp, process it with pxdb or
q4pxdb, and supply its path to lsof's Configure script in
HPUX_BOOTFILE.

    $ cp /stand/vmunix /tmp/vmunix.lsof

    $ /opt/langtools/bin/pxdb /tmp/vmunix.lsof
  or
    $ /usr/contrib/bin/q4pxdb /tmp/vmunix.lsof

    ... pxdb messages ...
    $ HPUX_BOOTFILE=/tmp/vmunix.lsof Configure -n hpux

It may also be necessary to use q4 outside the lsof Configure
script. In that case q4 can be to determine the state of

ipis_s and ipc_s with these q4 commands:

```
$ /usr/contrib/bin/q4 /stand/vmunix
...
q4> fields -c struct ipc_s
...
q4> fields -c struct ipis_s
```

Look in the q4 output for the ipc_ipis member of the ipc_s structure, and look in the q4 output for the ipis_s structure for the ipis_msgsqueued member. If ipc_s has ipc_ipis but ipis_s lacks ipis_msgsqueued, set HPUX_IPC_S_PATCH environment variable to "1". If ipc_s has ipc_ipis and ipis_s has ipis_msgsqueued, set HPUX_IPC_S_PATCH to "2" -- e.g.,

```
$ HPUX_IPC_S_PATCH=1 Configure -n hpux
```

or

```
$ HPUX_IPC_S_PATCH=2 Configure -n hpux
```

If ipc_s has no ipc_ipis member, set HPUX_IPC_S_PATCH to "N" -- e.g., use this Configure step:

```
$ HPUX_IPC_S_PATCH=N Configure -n hpux
```

9.2.6 When compiling /dev/kmem-based lsof for HP-UX 11 what do the "aCC runtime: ERROR..." messages mean?

When the lsof Makefile asks the HP-UX unbundled compiler to load lsof, it may complain:

```
/bin/cc -o lsof  -DHPUXV=1100 -DHASVXFS -DHPUXKERNBITS=64 \
-I/home/abe/src/lsof4/dialects/hpux/kmem/hpux11 +DD64 \
-DHAS_IPC_S_PATCH=2 -I/home/abe/src/lsof4/dialects/hpux/kmem \
-DLSOF_VSTR=\"B.11.00\"  -g dfile.o dmnt.o dnode.o dnode1.o \
dnode2.o dproc.o dsock.o  dstore.o  arg.o main.o misc.o \
node.o print.o proc.o store.o usage.o -L./lib -llsof  -lelf \
-lnsl
  aCC runtime: ERROR: Unexpected use of shared libraries
  aCC runtime: ERROR: Read aCC manpage, +A option
  /usr/lib/nls/loc/locales.1//is_IS.iso88591
```

This is a bug in the HP-UX national language support. (Notice the last message with "locales" in it?) Complain to HP -- then use this work-around before executing make:

```
$ unset LANG
```

```
$ make
```

9.2.7 Why doesn't /dev/kmem-based lsof for HP-UX 11 report VxFS file link counts, node numbers, and sizes correctly?

This is usually the result of running an lsof binary whose revision number is less than 4.57 on a system that has OnlineJFS support installed. It can also happen with lsof 4.57 binaries when the OnlineJFS support with which they were built doesn't match the OnlineJFS status of the system on which they are run.

The OnlineJFS status of lsof 4.57 and higher binaries can be determined by running:

```
$ lsof -v 2>&1 | grep HASONLINEJFS
```

If that shell pipe produces output, lsof was compiled with OnlineJFS support enabled; no output, disabled.

If OnlineJFS is installed on an HP-UX 11 system the /sbin/fs/vxfs/subtype executable exists and outputs "vxfs3.3" when run.

The problem occurs because the optional OnlineJFS support installation doesn't update <sys/fs/vx_inode.h>. Consequently lsof can be compiled with an incorrect definition of the vx_inode structure and look for for link counts, node numbers, and sizes in the wrong places in the structure.

The current response I have gotten from HP is that no <sys/fs/vx_inode.h> update will be provided for OnlineJFS.

I've addressed this problem temporarily with a work-around (hack) in lsof revision 4.57.

9.2.8 Why can't /dev/kmem-based lsof be built with gcc for 64 bit HP-UX 11?

When Configure is given the "hpuxgcc" abbreviation, the HP-UX version is 11, and the kernel bit size is 64, the lsof Configure script may abort with the messages:

```
!!!!!!!!!!!!!!!! FATAL ERROR !!!!!!!!!!!!!!!!!!

APPARENTLY GCC CANNOT BUILD 64 BIT EXECUTABLES.
A COMPILER MUST BE USED THAT CAN.  SEE 00FAQ
```

FOR MORE INFORMATION.

(This is the "more information" in 00FAQ.)

This
means the Configure script compiled a test program
with gcc the result wasn't an ELF-64 binary. Lsof tries
two gcc modes, one with no options and another with the
-mlp64 option, before it concludes gcc can't be used.

See the "How can I acquire a gcc for building lsof for 64
bit HP-UX 11?" answer for information on where you might
be able to get a gcc for HP-UX 11 that can produce ELF-64
executables.

9.2.8.1 How can I acquire a gcc for building lsof for 64 bit HP-UX 11?

Check this HP URL:

http://h21007.www2.hp.com/dspp/tech/tech_TechSoftwareDetailPage_IDX/1,1703,547,00.html

(That's one very long link; be careful you cut 'n paste it
all.)

In November 2001 that URL led to a web page whose title
was "gcc for hp-ux 11." The page offered a link for
downloading a 64 bit gcc 3.0 compiler for HP-UX 11.0 and
11i. Rich Rauenzahn of HP installed that compiler on an
HP test system he allows me to use and I successfully built
a 64 bit lsof with it.

The HP package
may install the 64 bit capable gcc in
/usr/local/pa20_64/bin/gcc, so you may have to adjust your
path or set the LSOF_CC environment variable to compensate.

9.2.9 Why does /dev/kmem-based lsof for HP-UX 11 report "unknown file
system type" for some open files?

The lsof binary being used probably doesn't have support for
the VxFS file system.

To confirm that, check `lsof -v` output for "-DHASVXFS". If
it's not present, lsof doesn't have VxFS support.

You also need to establish that lsof really is complaining
about VxFS files by checking the kernel boot file for the
symbol associated with the hexadecimal address reported in the

"unknown file system type" message -- e.g., "v_op: 0x8711c8."
Use nm(1) to do that:

```
$ nm -x /stand/vmunix | grep 8711c8
```

If nm reports the symbol associated with the address is
vx_vnodeops, then lsof is complaining about an open VxFS file.

The solution in that case is to build lsof yourself (The
bundled C compiler will do it.),
making sure that lsof's
Configure script detects the presence of VxFS. Configure does
that by finding these two header files:

```
/usr/include/sys/fs/vx_hpux.h
/usr/include/sys/fs/vx_inode.h
```

If the system where you are building lsof doesn't have those
header files, but does have VxFS, you might be able to install
the header files by installing the HP JournalFS package from
the CoreOS CD -- in particular the file set JournalFS.VXFS-PRG
and its associated patch, PHKL_18543. (My thanks to Steve
Bonds for that information.)

Finally, if you find that lsof isn't complaining about VxFS
when it complains about an unknown file system type, send
e-mail to me <abe@purdue.edu> for further assistance. Make
sure "lsof" appears in the "Subject:" line so my e-mail filter
won't classify your letter as Spam.

9.2.10 Why does the ANSI-C compiler complain about comments in HP-UX 11 header files?

When compiling lsof on HP-UX 11, the HP ANSI-C compiler's
pre-processor, cpp, may
complain about comments in HP-UX header
files -- e.g.,

```
cpp: "/usr/include/sys/cdfs.h", line 232: warning 2028:
Found comment inside comment started on line 232.
cpp: "/usr/include/sys/cdnode.h", line 196: warning 2028:
Found comment inside comment started on line 196.
cpp: "/usr/include/nfs/snode.h", line 30: warning 2028:
Found comment inside comment started on line 30
```

This is not a problem with lsof. It is a problem with the
HP-UX header files; they have non-compliant ANSI-C comment
sequences in them -- e.g.,

<sys/cdfs.h>: 232
/* struct cdfs *cdfs_link; /* linked list of file systems */

The initial "/*" is not terminated by an ending "*/" before the
appearance of a second "/*".

9.2.11 Why does dnode1.c cause the HP-UX 11 compiler to complain that <sys/fs/vx_inode.h> is missing or incorrect?

If CFLAGS in the lsof Makefile for an HP-UX 11 compilation
includes HASONLINEJFS, indicating the system has OnlineJFS
support, lsof needs the <sys/fs/vx_inode.h>
header file.
Sometimes it is missing from /usr/include/sys/fs.

<sys/fs/vx_inode.h> is a header file that must be obtained from
Veritas. If that proves impossible, please contact me via
e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

9.3 PSTAT-based HP-UX lsof Questions

The sources for PSTAT-based lsof for HP-UX may be found in
lsof_<revision>/dialects/hpux/pstat.

Lsof's Configure shell script decides to use these sources
when it finds that the /usr/include/sys/pstat subdirectory
exists.

Lsof can be forced to use the PSTAT-based sources by setting
"pstat" in the HPUX_BASE environment variable. Consult
the Configure shell script and 00XPORTING for more information.

9.3.1 Why does PSTAT-based lsof complain about pst_static and other PSTAT structures?

When lsof starts it may issue one of these fatal error
messages:

lsof: FATAL: can't determine PSTAT static size

lsof: FATAL: can't read <n> bytes of pst_static
lsof: FATAL: pst_static doesn't contain <name>_size
lsof: FATAL: <name>_size should be <n>

These messages indicate that lsof's tests for the proper level of PSTAT support have failed. The structure names, given in <name>, and sizes, given in <n>, identify the support deficiency more precisely.

You may need to upgrade the PSTAT support in your kernel to be able to use PSTAT-based lsof.

9.3.2 Why does PSTAT-based lsof complain it can't read pst_* structures?

Lsof may put messages like the following in the NAME column of its output.

```
can't read cwd pst_filedetails: Permission denied
can't read mem pst_filedetails: Permission denied
can't read rtd pst_filedetails: Permission denied
can't read txt pst_filedetails: Permission denied
can't read pst_filedetails: Permission denied
can't read 3 stream structures: Permission denied
can't read pst_socket: Permission denied
```

These messages indicate that the lsof binary lacks the authority to read the name structures for processes other than ones belonging to the UID under which lsof is running. Authority to read the structures of other processes is limited to root processes -- i.e., lsof must have setuid-root permission if it is to list open files for arbitrary processes.

If you want to eliminate these errors, you must run lsof as root or install it with setuid-root permission.

9.3.3 Why does PSTAT-based lsof rebuild the device cache file after each reboot?

After each HP-UX rebuild, the first time a user runs lsof it will report:

```
lsof: WARNING: device cache mismatch: /dev/tun...
lsof: WARNING: created device cache file: /<user_path>
```

This happens because the device numbers on /dev/tun* device nodes are recalculated at each reboot. When lsof detects a change in the device number of a /dev/tun* file, it rebuilds its local device cache file.

9.3.4 Why doesn't PSTAT-based lsof report TCP addresses for telnetd's open socket files?

When lsof can't report TCP addresses for telnetd's open socket files it is because an unpatched PSTAT kernel interface doesn't report the addresses to lsof.

This has been addressed in PSTAT kernel patch PHKL_24047. It is available from the HP IT Resource Center at:

    http://itrc.hp.com

In the page's "maintenance / support" box select the "individual patches" link. Once at its page, select the "hp-ux" link. On that page select the "Series 800" or "Series 700" radio button and select "11.11" from the pull-down list to the right of the button. Under "search or browse the path list" select "Search by Patch IDs" from the pull down list, enter PHKL_24047 in the following text box, and select search. That should lead to information about PHKL_24047 and a link for downloading it. (You may have to log in first and you may have to create a login identity by registering before you can log in.)

Some time in March 2006 the PHKL_24047 patch was "lost" by the HP-UX networking lab. It has been "found" again in August 2006 and will be re-released as a GRO patch "some time." I don't yet know when that will be. You must contact HP to learn about the availability of the GRO patch.

9.3.5 Why does PSTAT-based lsof cause an HP-UX 11.11 kernel panic?

When PSTAT-based lsof runs on some HP-UX 11.11 kernels, the kernel may panic. Symptoms include:

  Console message:
    0xFBE000301100EF00 00000000 0000EF00 -
    type 31 = legacy PA HEX chassis-code

  /var/adm/syslog:
    ... vmunix: Trap Type 15 (Data page fault)
    ... vmunix: Instruction Address (pcsq.pcoq) = 0x...

The panic is caused by a bug in the way PSTAT's pstat_getstream() function obtains module names from streams managed by the

otsam stream driver (part of OSI Transport Services). Lsof calls pstat_getstream() when it encounters an open otsam stream file. An HP-UX 11.11 system uses otsam if otsam appears in /stand/system.

HP-UX
11.11 patch PHKL_24507 (available some time after July 15, 2001) fixes the pstat_getstream() bug. See the information in the answer to the "Why doesn't PSTAT-based lsof report TCP addresses for telnetd's open socket files?" question for information on how to obtain the patch.

9.3.6 Why doesn't PSTAT-based lsof report a CWD that is on a loopback (LOFS) file system?

When PSTAT-based lsof reports on processes whose current working directory (CWD) is on a loopback file system, lsof can't report the open CWD file. The reason is that the HP-UX 11.11 and above kernel's loopback file system code is not passing the CWD file ID to the kernel's pstat(2) code. Hence lsof is given no information on the lofs CWD.

The problem was first reported to me by Ermin Borovac and an internal bug report was filed with the HP-UX file system group on October 26, 2004. That report has now been answered by the patch PHKL_33200 -- s700_800 11.11 lofs cumulative patch. The HP IT Resource
Center (http://itrc.hp.com) is a source for the patch.

9.3.7 Why do some swinstall packages for PSTAT-based HP-UX 11.11 packages complain about setgid and setuid bits?

First, let me explain that I do not provide lsof swinstall packages for lsof. Others provide them and they should be contacted about problems with their packages.

However, I have become aware of a problem with one package about which I have some information I can share. The problem shows up in these swinstall messages:

```
ERROR:   Unknown owner and/or group for file
  "/usr/local/bin/lsof". SUID and/or SGID bit was
  not set.
ERROR:   Failed installing fileset "lsof.lsof-RUN,r=4.73".
  Check the above output for details.
```

The swpackage SUID/SGID functionality was restricted by changes

for POSIX compliance, breaking backward compatibility. The patch PHCO_27671 allows SUID/SGID for uid/gid of 0 only, as a compromise between backward compatibility and POSIX conformance.

If the setuid bit is to be set on the executable, the UID and GID of the executable must be 0 (zero).

9.3.8 Why won't the bundled C compiler build PSTAT-based lsof for PA-RISC HP-UX 11.23?

A PA-RISC HP-UX 11.23 bundled C compiler dated May 2005 or later will not build PSTAT-based lsof. It will deliver error messages related to the system's <gssapi/gssapi.h> header file.

There is nothing wrong with that header file or lsof. The problem is that the bundled C compiler can't cope with the gssapi.h header file.

The work-around is to use the HP ANSI C compiler. Using gcc is not a satisfactory work-around. See the answer to the "Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?" question for more information.

9.3.9 Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?

Gcc will not even compile PSTAT-based lsof revisions below 4.77 for PA-RISC HP-UX 11.23 dated May 2005 or later. It reports errors in lsof's print.c fill_portmap() function about missing members of the rpcent structure. That happens because gcc defines _XOPEN_SOURCE_EXTENDED which disables the definition of the rpcent structure in <netdb.h>.

Using the HP bundled C compiler is not a viable work-around. That is explained in the answer to the "Why won't the bundled C compiler build PSTAT-based lsof for PA-RISC HP-UX 11.23?"

While an lsof revision 4.77 or higher can be compiled with gcc, the results are unreliable. Lsof will compile, but it occasionally produces segment faults when it runs. I have not been able to reproduce the failure reliably or locate a debugger that will work with the gcc-compiled lsof.

The only reliable work-around is to use the HP ANSI C compiler.

9.3.10 Why does PSTAT-based lsof complain, "FATAL: pst_stream_size should be: 672; is 72" on HP-UX 11.11 and above?

This message indicates a mismatch between the PSTAT header files used to build lsof (<sys/pstat.h> and those in the /usr/include/sys/pstat subdirectory), and those that built the
running kernel.

Unfortunately the June 2008 patch set for HP-UX 11.23 creates this inconsistency, because it does not contain all the patches needed to match the kernel with the PSTAT header files. Even more serious is that the missing patches update the kernel's PSTAT support to provide TCP/UDP endpoint information to lsof from TCP/TLI streams.

The patch inconsistency comes about because, while the following patch is installed,

PHKL_36577 1.0 PM-PSTAT section 2 manpage changes

other kernel patches are not.

The PHKL_36577 patch updates the PSTAT header files and manual pages to match kernel changes that other patches with the following numbers (or patches that contain or supersede them) contain:

PHNE_36575 1.0 Cumulative STREAMS Patch
PHNE_37670 1.0 cumulative ARPA Transport patch
PHNE_37851 1.0 NFS cumulative patch

Those patches implement the kernel changes that support the delivery of information promised in patch PHKL_36577.

The
work-around is to install the missing patches.

9.4 Why won't the HP-UX depot install?

I don't distribute lsof depots, so I can't support them.

From time to time depots prepared by various sites -- e.g., usually HP-UX software collection sites -- will contain errors that cause installation of the depot to fail.

Do not contact me when this happens. Instead, contact the administrator of the site that prepared the depot.

As should be clear from the bulk of the lsof documentation, I
do not recommend you use pre-built lsof binaries in any form.
Instead, I recommend you obtain the lsof source distribution
and build lsof yourself.

10.0 Linux

10.1 What do /dev/kmem-based and /proc-based lsof mean?

At approximately Linux 2.1.72 and exactly at lsof revision
4.23 support for Linux forks. The first fork, containing
the oldest lsof form is based on access to kernel memory
structures, and is called /dev/kmem-based lsof. A
/dev/kmem-based lsof is heavily intertwined
with the Linux
kernel version, its header files, and its system map file.
Typically a /dev/kmem-based lsof needs only setgid permission
to local all open file information.

After approximately Linux 2.1.72 and at revision 4.23 lsof
obtains all its information from the /proc file system.
That lsof is called the /proc-based lsof. A /proc-based
lsof does not read kernel memory, needs neither kernel
header files nor the system map file, and is less likely
to be affected by Linux kernel changes. However, it does
require setuid-root permission to list all open files, and
it can't report file offsets (positions).

After revision 4.52 the /dev/kmem-based Linux sources for
lsof are no longer distributed. Information about them
may be found in the 00INDEX and README files at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/src

10.2 /proc-based Linux lsof Questions

10.2.1 Why doesn't /proc-based lsof report file offsets (positions)?

/proc-based lsof revisions 4.79
and above can only report file
offsets (positions) for the files of Linux kernels 2.6.22 and
above.

During its initialization /proc-based lsof tests to see if
offset information can be obtained. If it cannot, lsof
disables offset reporting. If the -o option was selected, lsof

also issues this warning:

```
lsof: WARNING: can't report offset; disregarding -o.
```

10.2.2 Why does /proc-based lsof report "can't identify protocol" for some socket files?

/proc-based lsof may report:

```
COMMAND PID ... TYPE ... NODE NAME
pump    226 ... sock ...  309 can't identify protocol
```

This means that it can't identify the protocol (i.e., the AF_* designation) being used by the open socket file. Lsof identifies protocols by matching the node number associated with the /proc/<PID>/fd entry to the node numbers found in selected files of the /proc/net sub-directory. Currently /proc-based lsof examines these protocol files:

```
/proc/net/ax25  (untested)
/proc/net/icmp
/proc/net/ipx  (needs kernel patch)
/proc/net/netlink
/proc/net/packet
/proc/net/raw
/proc/net/raw6
/proc/net/sctp/assocs
/proc/net/sctp/eps
/proc/net/sockstat
/proc/net/sockstat6
/proc/net/tcp
/proc/net/tcp6
/proc/net/udp
/proc/net/udp6
/proc/net/udplite
/proc/net/udplite6
/proc/net/unix
```

If /proc-based lsof says it can't identify the protocol for an open socket file, you may be able to identify the protocol yourself by using grep to look for the specific node number in the files of /proc/net -- e.g.,

```
$ grep <node_number> /proc/net/*
```

You may not be able to find the desired node number, because

not all kernel protocol modules fully support /proc/net
information.

If you find a matching node number in a /proc/net file that is
not currently being processed by lsof, contact me via e-mail at
<abe@purdue.edu>. I'll discuss adding support to /proc-based
lsof for the protocol of the /proc/net file
with you. Make
sure "lsof" appears in the "Subject:" line so my e-mail filter
won't classify your letter as Spam.

The code that matches node numbers of open IPX protocol
socket files to those in /proc/net/ipx requires Jonathan
Sergent's Linux 2.1.79 patch to /usr/src/linux/net/ipx/af_ipx.c.
The patch, suitable for input to Larry Wall's patch program,
may be found in the lsof distribution file:

.../dialects/linux/proc/patches/net_ipx_af_ipx.c.patch

10.2.3 Why does /proc-based lsof warn about unsupported formats?

Lsof may issue the following warning:

lsof: WARNING: unsupported format: /proc/net/<file>

if the header line of the indicated <file> in /proc/net --
ax25, ipx, raw, tcp, udp, or unix -- doesn't match what
lsof expects to find.

When the header line of a /proc/net file isn't what lsof
expects, lsof probably can't parse the rest of the file
correctly and doesn't try. As a result, lsof can't report
any NAME column information (e.g., local and remote
addresses)
for socket files bound to the indicated network protocol.

If you get this warning, please send me e-mail at <abe@purdue.edu>.
Include the contents of the file lsof claims has an unsupported
format. Make sure "lsof" appears in the "Subject:" line so my
e-mail filter won't classify your letter as Spam.

10.2.4 Why does /proc-based lsof report "(deleted)" after a path name?

The "(deleted)" notation following a path name in /proc-based
lsof's NAME column comes from the /proc/<PID>/fd/<FD> entry
for the open file. It's the Linux kernel's way of indicating
the file is open but has been unlinked (rm'd).

10.2.5 Why doesn't /proc-based lsof report full open file information for all processes?

/proc-based lsof can only report on processes whose /proc files it has permission to read. /proc normally grants permission to read all its files only to root or to the owning user ID.

Without permission to read most /proc files, lsof can only report full information for processes belonging to the user who is running lsof. /proc-based lsof may be able to report some information for all processes, depending on the permissions of their associated /proc files, but usually /proc-based lsof won't be able to access the files in /proc/<PID>/fd/ that describe regular open files.

If you want /proc-based lsof to report on all processes, you must install it with setuid-root permission.

10.2.6 Why won't Customize offer to change HASDCACHE or WARNDEVACCESS for /proc-based lsof?

/proc-based lsof doesn't read device information from /dev or the device cache file, so it makes no sense to change the state of device cache processing or /dev node accessibility warnings.

10.2.7 /proc-based lsof Linux NFS questions

10.2.7.1 Why can't lsof find files on an accessible NFS file system?

On occasion lsof may be unable to identify that an open file is on an NFS file system. This is most likely the result of a bug in the way the Linux kernel supplies information to the reader of /proc/mounts (lsof) -- sometimes that pseudo-file is truncated by the kernel.

One way to see if this is the case is to search for the NFS file system in /proc/mounts -- e.g.,

```
$ grep <NFS_file_system_mount_point> /proc/mounts
```

If you get no output or the third word of the output isn't "nfs", then lsof won't consider the file system an NFS file system.

A second test is to look at the end of /proc/mounts --
e.g.,

```
$ tail /proc/mounts
```

If tail reports "# truncated" then /proc/mounts is incomplete
because of a Linux kernel bug. The bug is documented at:

http://www.xss.co.at/sysinfo/mounts.html

The bug is fixed in Linux kernel 2.4.18, and possibly in
some earlier Linux kernel versions.

10.2.7.2 Why can't lsof find files on an inaccessible NFS file system?

If lsof issues this message about a Linux file system,
mounted from an NFS server:

```
lsof: WARNING: can't stat() nfs file system /xxx/yyy
```

Then lsof won't be able to find
any open files on the file
system.

That's because of an inadequacy in the Linux /proc file
system. Its /proc/mounts file doesn't give the device
doublet (major and minor numbers) of the file system as do
many UNIX systems (e.g., Solaris). The only way lsof can
get the device doublet for a Linux file system is to call
stat(2) on the file system path, which fails if the NFS
server isn't accessible.

When lsof doesn't know the device doublet of a file system,
it can't find open files on the inaccessible file system,
because it can't match the doublets of open files to the
doublet of the inaccessible file system.

This topic is covered extensively in lsof(8) it its ALTERNATE
DEVICE NUMBERS and BLOCKS AND TIMEOUTS sections.

10.2.8 Why doesn't /proc-based Linux lsof report socket options and
values, socket state flags, and TCP options and values?

The Linux /proc file system doesn't report socket options
and values, socket states, and TCP options and values to
lsof.

10.2.9 Does

/proc-based Linux lsof use a device cache?

No. The Linux /proc/<PID>/fd/* entries provide device names to lsof via readlink(2). It is not necessary to enable device cache processing for /proc-based Linux lsof via the Customize script or modifications to the Linux machine.h header file.

10.2.10 Why doesn't /proc-based Linux lsof report any or all file structure values for its +fcfgGn option?

/proc-based lsof revisions 4.79 and above can only report some file structure values for Linux kernels below 2.6.22.

When running on Linux kernels at 2.6.22 and above lsof 4.79 can report some file flag values -- i.e., in response to the +fg or +fG options. The flag values are obtained from the /proc/<PID>/fdinfo/ files introduced at Linux kernel 2.6.22.

/proc-based Linux lsof tests its availability to obtain file flag values at initialization. If values are not available, lsof disables file flag reporting. If the flags were requested with +fg or +fG, lsof displays this warning:

```
lsof: WARNING: can't report file flags; disregarding +f.
```

As a special note, when Linux lsof can report flag bits, it will not report 'R' for a read-only file. There is no read-only flag bit O_* symbol in <fcntl.h> (or <bits/fcntl.h>) and lsof reports only bits that are set. The absence of O_RDWR and O_WRONLY flag bits implies the file is read-only.

10.3 Special Linux file types

10.3.1 Why is ``DEL'' reported as a Linux file type?

Lsof usually reports entries from the Linux /proc/<PID>/maps file with ``mem'' in the TYPE column. However, when lsof can't stat(2) a path in the process' ``maps'' file and the ``maps'' file entry contains ``(deleted)'', indicating the file was deleted after it had been opened, lsof reports the file type as ``DEL''.

10.3.2 Why is ``unknown'' reported as a Linux file type?

Lsof may report a Linux file's type as ``unknown'' in the TYPE column when lsof can't obtain complete stat(2) results for the file.

Usually the NAME
column will contain a ``(stat: xxx)'' error
message, but that could have been suppressed with the lsof
``-w'' option.

10.4 Linux ``mem'' Entry Problems

10.4.1 What do ``path dev=xxx'' and ``path inode=yyy'' mean in the NAME column of Linux ``mem'' file types?

When the device or inode number in the process' ``maps'' file
entry doesn't match the stat(2) results from the file path,
lsof reports the inconsistent information from the stat(2) of
the path parenthetically after the path in the NAME column
in one of these forms:

(path dev=xxx) only the device number,
``xxx'', from a stat(2) of the
``maps'' file entry path
differs from the ``maps'' file
entry value reported in the
DEVICE column.

(path inode=yyy) only the inode number,
``yyy'', from a stat(2) of the
``maps'' file entry path
differs from the ``maps'' file
entry value reported in the
NODE column.

(path dev=xxx inode=yyy) Both device
and inode numbers
differ.

Lsof reports the ``maps'' file device number in the DEVICE
column and the inode number in the NODE column.

When device and inode mismatches occur, lsof suppresses the
reporting of link count and size. See the answer to the "Why
is neither link count nor size reported for some Linux ``DEL''
and ``mem'' file types?" question for more information.

Device and inode inconsistencies can occur when a file at a
``maps'' path is replaced after the process has started, or
when a different file system with similar path names is mounted
on top of the original file system.

The device inconsistency parenthetical messages can be suppressed with lsof's ``-w'' option.

10.4.2 Why is neither link count nor size reported for some Linux ``DEL'' and ``mem'' file types?

Link count and size are not reported for some entries from the process' ``maps'' file because a stat(2) of the entry file path failed or stat(2) delivered device or inode numbers that don't match
the ones in the ``maps'' entry.

When the stat(2) device or inode numbers don't match those in the ``maps'' file entry, it is likely that the stat(2) results don't apply to the file that was originally mapped by the process and whose path appears in the ``maps'' file entry, so lsof tries to avoid reporting possibly incorrect information.

See the answer to the "What do ``path dev=xxx'' and ``path inode=yyy'' mean in the NAME column of Linux ``mem'' file types?" for more information on how mismatched stat(2) device and inode numbers are reported.

10.5 Special Linux NAME column messages

10.5.1 What does ``(stat: xxx)'' mean in the NAME column of Linux files?

When lsof tried to stat(2) the path in the NAME column, the stat(2) system call failed and produced an error message of ``xxx''.

This situation usually occurs if the lsof process lacks permission to stat(2) the path -- e.g., the lsof executable lacks root permission, or lsof is attempting to stat(2) a
path
on an NFS device mounted with the root_squash option.

The message can be suppressed with lsof's ``-w'' option.

10.5.2 What does ``(readlink: xxx)'' mean in the NAME column of Linux files?

When lsof tried to convert the /proc/<PID>/fd path, reported in the NAME column, to its full and more meaningful path, the readlink(2) system call used to do the conversion failed. The readlink(2) failure message is ``xxx''.

This situation usually occurs if the lsof process lacks permission to readlink(2) some part of the path -- e.g., the lsof executable lacks root permission, or lsof is attempting to stat(2) a path on an NFS device mounted with the root_squash option.

The message can be suppressed with lsof's ``-w'' option.

10.6 Why is ``NOFD'' reported as a Linux file type?

When lsof lacks permission to use opendir() on the fd/ subdirectory of a process' /proc/<PID> directory, it reports a single file of the type ``NOFD'' (for no file descriptors).

Lsof reports the the /proc/<PID>/path in the NAME column, followed by "(opendir: xxx)", where ``xxx'' is the error message returned by opendir().

The ``NOFD'' entry can be suppressed with lsof's ``-w'' option.

10.7 Why does Linux lsof report a NAME column value that begins with ``/proc''?

When lsof has problems processing a ``/proc/<PID>'' entry -- e.g., it can't convert the entry to a full and more meaningful path name, or it can't access the /proc/<PID>/fd subdirectory with opendir() -- it will report the /proc/<PID> path in the NAME column.

10.8 Linux /proc/net/tcp* and /proc/net/udp* issues

10.8.1 Why use the Linux -X option?

If you're not interested in TCP/IP socket information for a particular use of lsof, adding the -X option will make lsof run more quickly, because -X inhibits the reading of the /proc/net/tcp* and /proc/net/udp* files. For example, you may only be interested in knowing what process has a particular file open.

When the Linux system has a large number of open TCP/IP socket files, the time savings provided by -X can be significant.

10.8.2 Why does lsof say ``-i is useless when -X is specified''?

If -X is specified, lsof can't report much information on open

TCP/IP socket files. However, lsof's -i option requests that information. Hence, the two options conflict and can't be used together.

10.8.3 Why does lsof say ``can't identify protocol (-X specified)"?

If the Linux lsof -X option is specified and an open socket file can't be identified without accessing the /proc/net/tcp* and /proc/net/udp* files, lsof will report that it can't identify the socket's protocol and that the failure may be caused by the -X specification

11.0 NetBSD Problems

11.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open NetBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

11.2 Why doesn't lsof report on open files on: file descriptor file systems; /proc file systems; 9660 (CD-ROM) file systems; MS-DOS (floppy disk) file systems; or kernel file systems?

Lsof is not able to report on open files on certain file system if /usr/src/sys/msdosfs didn't exist when the lsof Configure script ran and lsof was made. /usr/src/sys/msdosfs contains header files lsof needs for collecting data on certain file system files.

You can tell if an lsof executable above) lacks support for a file system if the following test of `lsof -v` produces nothing:

```
$ lsof -v 2>&1 | grep <support_enabled_definition>
```

The <support-enabled_definition> will be:

File System Type	Definition	Note
File descriptor	HASFDESCFS	
/proc	HASPROCFS	
9660	HAS9660FS	
MS-DOS	HASMSDOSFS	(lsof 4.61 and above)
Kernel	HASKERNFS	

The work-around is to install /usr/src/sys, rerun the lsof Configure script, and remake lsof.

11.3 Why does lsof produce confusing results for nullfs file systems?

Consider this report from /sbin/mount:

```
/usr/home on /home type null (local)
```

(According to /sbin/mount /usr/home is the mounted-on device and /home is the mounted-on directory.)

When lsof is asked to report on open files on /home, it will report them as files on /usr/home instead. That's an artifact of the NetBSD kernel's dynamic name lookup cache (DNLC) and the way the kernel handles nullfs mounted-on directories.

While lsof will report all open files on /home when given /home as a file system directory argument, even though reporting them as located on /usr/home, lsof will not find the same files when asked to report on all open files on /usr/home when given /usr/home as a file system device argument. That's because from the mount perspective /usr/home is equivalent to a device, but from the device perspective it is still a directory.

So, what this lsof command reports:

```
$ lsof /home
... NAME
... /usr/home/...
```

Won't be duplicated by this lsof command:

```
$ lsof /usr/home
```

Another way to look at this confusing /home and /usr/home example is to consider what stat(2) reports. For /home stat(2) reports a device doublet that matches what lsof finds in open file node structures, while the device doublet stat(2) reports for /usr/home won't match what lsof finds. Nor does the mode reported by stat(2) indicate a block devices, as is the expected case.

There is no simple answer to this confusion, nor is there even a simple explanation. Simply be aware that when supplying file system arguments to lsof on NetBSD, use the mounted-on directory name for a nullfs as the lsof argument, and don't be surprised when the NAME column reports the mounted-on device name.

11.4 NetBSD header file problems

11.4.1 Why can't the compiler find some NetBSD header files?

If the compiler's pre-processor complains it can't find some header files when it compiles lsof source files, /usr/include and /usr/src may not have all the header files lsof needs.

As a work-around use the NETBSD_SYS environment variable to specify to lsof the location of the additional header files -- e.g.,

```
% setenv NETBSD_SYS /my_source
% ./Configure -n netbsd
```

or

```
$ NETBSD_SYS=/mys_source ./Configure -n netbsd
```

Caution: using this work-around may cause the lsof Configure script to activate or omit different features, depending on where it finds the header files that determine the state of the features.

11.4.2 Why does NetBSD lsof produce incorrect output?

If the NetBSD system's kernel was built from header files that don't match those in /usr/include -- e.g., //usr/src has the ones from which the kernel was built -- lsof may build, but won't produce correct output.

As a possible work-around, try directing the C compiler to select header files from /usr/src before it selects them from /usr/include. That can be done with the DEBUG make string -- e.g.,

```
$ make DEBUG="-I/usr/src -I/usr/include"
```

If that work-around fails, try using the LSOF_INCLUDE and NETBSD_SYS environment variables to swap /usr/include and

/usr/src when running the Configure script, then use the make DEBUG string when running make -- e.g.,

```
$ LSOF_INCLUDE=/usr/src; export LSOF_INCLUDE
$ NETBSD_SYS=/usr/include; export NETBSD_SYS
$ ./Configure -n netbsd
$ make DEBUG="-I/usr/src -I/usr/include"
```

11.5 Why isn't lsof feature xxx enabled for NetBSD?

Lsof's Configure script enables NetBSD features by locating and examining header files associated with the features, and based on what it finds, setting compile-time definitions in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find appropriate values in header files, that may mean the header file tree lsof is searching is incomplete or out of date.

Lsof normally looks for NetBSD header files in /usr/include. It can also be directed to look in other directories -- e.g.,
/sys -- if told to do so with the contents of the LSOF_INCLUDE and NETBSD_SYS environment variables.

To determine what header file enables a missing feature, check the NetBSD stanza in the Configure script. Then check the locations it checks for the indicated header files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and and NETBSD_SYS.

12.0 NEXTSTEP and OPENSTEP Problems

12.1 Why can't lsof report on 3.1 lockf() or fcntl(F_SETLK) locks?

Lsof has code to test for locks defined with lockf() or fcntl(F_SETLK) under NEXTSTEP 3.1, but that code has never been tested. I couldn't test it, because my NEXTSTEP 3.1 lockf() and fcntl(F_SETLK) functions return "Invalid argument" every way I have tried to invoke them.

If your NEXTSTEP 3.1 system does allow you to use lockf() and fcntl(F_SETLK) and lsof doesn't report locks set with them, then the code in .../dialects/next/dnode.c probably

isn't correct. Please contact me via e-mail at <abe@purdue.edu>
and
tell me how you got your lockf() and fcntl(F_SETLK) system
calls to work. Make sure "lsof" appears in the "Subject:" line
so my e-mail filter won't classify your letter as Spam.

12.2 Why doesn't lsof compile for NEXTSTEP with AFS?

I no longer have a NEXTSTEP test system that has AFS.
Changes to lsof since I once had a test system have caused
me to change the AFS code in NEXTSTEP without being able
to test the changes.

If you need AFS support for NEXTSTEP and can't get it to
compile, please contact me. Perhaps we can jointly fix
the problems.

13.0 OpenBSD Problems

13.1 Why doesn't lsof support kernfs on my OpenBSD system?

Lsof supports the kernel file system on OpenBSD versions
whose /sys/miscfs/kernfs/kernfs.h (or <miscfs/kernfs/kernfs.h>
header file correctly defines the kern_target structure.
The lsof Configure script's openbsd stanza checks for the
presence of the structure's kt_name element and activates
kernfs support for the CFLAGS -DHASKERNFS definition
only
when it finds kt_name.

The kernfs.h header file is scheduled to be updated in the
OpenBSD 2.1 release, according to Kenneth Stailey, who
authored its changes.

13.2 Will lsof work on OpenBSD on non-x86-based architectures?

I've not tested lsof on an OpenBSD system that uses a
non-x86-based architecture, but I've had one report that
lsof 4.33 compiles and works on OpenBSD for the pmax
architecture (decstation 3100).

13.3 <sys/pipe.h> problems

13.3.1 Why does the compiler claim nbpg isn't defined?

When compiling lsof on some (older) OpenBSD SPARC versions,
the compiler may complain:

```
In file included from ../dlsof.h:191,
    from ../lsof.h:166,
    from fino.c:52:
/usr/include/sys/pipe.h:83: `nbpg' undeclared here
(not in a function)
/usr/include/sys/pipe.h:83: size of array `ms' has
non-integer type
```

This happens because <sys/pipe.h> uses NBPG from <machine/param.h> to size the `ms' array, and some OpenBSD systems define
NBPG in terms of a kernel integer variable,
nbpg.

Lsof revisions 4.46 and above have a hack to dlsof.h, developed by Volker Borchert that avoids the compiler problem for SPARC OpenBSD 2.3. The hack might work for other OpenBSD SPARC versions, but hasn't been tested there.

If you want to enable the hack for your OpenBSD SPARC version, modify this code in .../dialects/n+obsd/dlsof.h:

```
# if    defined(OPENBSDV)
#  if   OPENBSDV==2030 && defined(__sparc__)
#   if  defined(nbpg)
#undef  nbpg
#   endif       /* defined(nbpg) */
#define nbpg    4096            /* WARNING!!!  ... */
#  endif       /* OPENBSDV==2030 && defined(__sparc__) */
#include <sys/pipe.h>
#endif  /* defined(OPENBSDV) */
```

You will probably want to change the second #if test to match your OpenBSD version. You may also want to change what value is assigned to nbpg. See the next section, "What value should I assign to nbpg?"

13.3.2 What value should I assign to nbpg?

If you need to enable the nbpg hack, described in "Why does the compiler claim nbpg isn't defined?", you may also need to assign a value other than 4096 to nbpg. 4096 works for the sun4c processor and should work for sun4m, but 8192 may be needed for sun4.

Check <machine/param.h> and other OpenBSD documentation to

determine the correct nbpg assignment.

13.4 Why doesn't lsof report on open MS-DOS file system (floppy disk) files?

Lsof is not able to report on open MS-DOS file system files if /usr/src/sys/msdosfs didn't exist when the lsof Configure script ran and lsof was made. /usr/src/sys/msdosfs contains header files lsof needs for collecting data on MS-DOS file system files.

You can tell if an lsof executable (revisions 4.61 and above) lacks MS-DOS file system support if the following command reports nothing:

```
$ lsof -v 2>&1 | grep HASMSDOSFS
```

The work-around is to install /usr/src/sys, rerun the lsof Configure script, and remake lsof.

13.5 Why isn't lsof feature xxx enabled for OpenBSD?

Lsof's Configure script enables OpenBSD features by locating and examining header files associated with the features, and based on what if finds, setting compile-time definitions in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find appropriate values in header files, that may mean the header file tree lsof is searching is incomplete or out of date.

Lsof normally looks for OpenBSD header files in /usr/include and /sys. It can also be directed to look in other directories if told to do so with the contents of the LSOF_INCLUDE and NETBSD_SYS environment variables.

To determine what header file enables a missing feature, check the OpenBSD stanza in the Configure script. Then check the locations it checks for the indicated header files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and and NETBSD_SYS.

14.0 Output Problems

14.1 Why do the lsof column sizes change?

Lsof dynamically sizes its output columns each time it runs to make sure that each column takes the minimum space. Column parsing -- e.g., with awk -- is possible, because each column is guaranteed to be separated from the preceding one by at lease one space, and no column except the last (NAME) contains embedded spaces.

14.2 Why does the offset have ``0t' and ``0x" prefixes?

The offset value that appears in the SIZE/OFF column has ``0t' and ``0x" prefixes to distinguish it from size values that may appear in the same column.

Normally if the offset value is less than 100,000,000 (8 digits), it appears in decimal with a ``0t' prefix; over 99,999,999, in hexadecimal with a ``0x" prefix.

A decimal offset is handy, for example, when tracking the progress of an outbound ftp transfer. When lsof reports on the ftp process, it will report the size of the file being sent with its open descriptor; it will report the progress of the transfer via the offset of the outbound open ftp data socket descriptor.

The ``-o [n]" option may be used to specify the maximum number of decimal digits to be printed after ``0t" before lsof switches to the hexadecimal digits after `0x". As already noted, the default decimal digit count is 8.

14.3 What are the values printed in the FILE_FLAG column and why is 0x<value> sometimes included?

The two comma separated lists, separated by a semicolon, printed in the FILE-FLAG column (when the "+fg" option is specified), are short-hand names or hexadecimal values for the bits lsof finds in the f_flag or f_flags member of file structures for files (the first list, the one before the semicolon), and process open files flags found in various kernel structures, often named "pofile" (the second list, the one after the semicolon).

Lsof determines the short-hand names from symbols in the <fcntl.h>, <linux/fs.h>, <sys/fcntl.h>, <sys/fcntlcom.h>, o<sys/file.h>, and <sys/user.h> header files.

See
the discussion of FILE-FLAG in the OUTPUT section of
the lsof man page, and the FF_* and POF_* symbols in lsof.h
for a list of the names.

Bits with no names defined for them are represented by an
0x<value> member of the comma-separated list -- a hexadecimal
integer. When "+fG" is specified (instead of "+fg"), lsof
will list all flag values as two hexadecimal integers,
separated by a semicolon.

When "-FG" is specified to get the flags in an output field,
the format defaults to hexadecimal. You can get names
instead by following "-FG" with "+fg" -- e.g.,

```
$ lsof -FG +fg ...
```

However, when you precede "-FG" with "+fg" -- e.g.,

```
$ lsof +fg -FG
```

the format will be hexadecimal; order is important.

14.3.1 Why doesn't lsof display FILE_FLAG values for my dialect?

All versions of lsof except the /proc-based Linux lsof
report FILE-FLAG values. Lsof can't obtain FILE-FLAG
information from the Linux /proc interface.

14.4 Network Addresses

14.4.1 Why
does lsof's -n option cause IPv4 addresses, mapped to
IPv6, to be displayed in IPv6 notation?

When you use the -n option to tell lsof to display numeric
network addresses, and an IPv4 address has been mapped to
IPv6, lsof displays the address in IPv6 format and puts
"ipv4" in the TYPE column. That combination indicates the
IPv4 address has been mapped to IPv6.

For example, the IPv4 address 1.2.3.4, when mapped to an
IPv6 address, will be displayed by lsof as:

```
[::ffff:1.2.3.4]
```

The enclosing brackets are lsof's signal that this is an

IPv6 address. Inside the brackets is a standard IPv6 address, reported by inet_ntop(). The first two colons, signifying zeroes in the first 64 bits of the IPv6 address, and the hexadecimal ffff in the next 32 bits, indicate that the last 32 bits contains a mapped IPv4 address, which is then displayed in IPv4 dot notation.

14.5 Why does lsof output \x, ^x, or \xnn for characters sometimes?

Lsof displays only printable ASCII characters. Lsof considers a character printable if isprint(3) says it is. If isprint(3) says a character isn't printable, the lsof may page explains:

"... Non-printable characters are printed in one of three forms: the C ``\[bfrnt]" form; the control character `^' form (e.g., ``^@"); or hexadecimal leading ``\x" form (e.g., ``\xab"). Space is non-printable in the COMMAND column (``\x20") and printable elsewhere."

14.5.1 Why is space considered a non-printable character in command names?

Space is considered an unprintable character in command names because it is sometimes possible to hide the full command name from scripts that parse ps(1) output by embedding a space in the name.

14.6 Why doesn't lsof print all the characters of a command name?

By default lsof prints the first nine characters of the names of commands associated with processes. If more characters are required, the "w" value of the "+c w" option may be used to specify a larger width.

If "w" is zero ('0') lsof will print all characters of all command names up to the limit of the number of characters supplied by the particular UNIX dialect. When reporting command names, lsof replaces non-printable characters as discussed in the answer to " Why does lsof output \x, ^x, or \xnn for characters sometimes?"

See the answer to the "Why is space considered a non-printable character in command names?" question for an explanation of why

spaces are replaced by the ``\x20" representation in command
names.

The number of command name characters supplied to lsof by UNIX
dialects in files and structures varies by dialect. For
example, Linux 2.4.27 supplies lsof the first 15 characters of
command names and Solaris 9 supplies 16. Thus, even if "w" is
zero ('0'), lsof can't report more characters for command names
on those two UNIX dialects than they provide lsof.

14.7 Why does lsof reject some -c command names, saying their lengths
are "> what
system provides (nn)"?

The command name length that a specific system provides varies
from dialect to dialect. As noted in the answer to the "Why
doesn't lsof print all the characters of a command name?"
question, Linux and Solaris provide a limited number of command
name characters.

When more characters are specified in the parameter to the -c
option, lsof considers it an error and issues a fatal error
message -- e.g.,

lsof: "-c xxxxyyyy" length (8) > what system provides (7)

The only work-around is to specify no more characters to -c
that the system provides to lsof.

14.8 Why does lsof sometimes print TYPE numbers instead of names?

When lsof can't convert a type number to a name for printing in
the TYPE column, it will report the number as four octets.

14.9 Marker line format problems

14.9.1 Why won't lsof accept a marker line format?

Lsof's Configure script must find the localtime(3) and
strftime(3) functions in the dialect's C library in order to
enable
support for marker line formats.

Check the output of lsof's -v option for the presence of
-DHAS_STRFTIME in the compiler flags. If it isn't there,
Configure didn't find the necessary two C library functions.

If you think lsof should have found the functions, make a copy

of the C test program in the Configure script that it uses to find the functions. Then use the copy, or a more informative modification of it, to learn why Configure can't find the functions. You can find that program by searching for strftime.

14.9.2 Why does lsof reject the NL (%n) marker line format?

When repeat mode and field output (with -F) have both been specified, lsof won't allow new line (NL) formats to be specified with ``%n''. That's because the marker line is always guaranteed to be a single line.

There is no work-around to this restriction.

14.10 How are protocol state name exclusion and inclusion used?

Protocol state name inclusion and exclusion with the ``-s p:s'' option and
its arguments have some issues to consider. Note:
the ``-s p:s'' option is only available when the help output, obtained with -h or -?, shows it; it was a recent addition to lsof and is supported only on dialects where it could be tested.

First, there is the problem of determining what state names, if any, the dialect produces. Try running this lsof command to find them:

```
$ lsof -i
```

Knowing the state names of interest, the next problem is to decide on the lsof options and their parameters that will produce the desired output. Here some examples are probably the most useful.

To list only TCP socket files in LISTEN and CLOSE_WAIT states, use:

```
$ lsof -itcp -stcp:listen,close_wait
```
or
```
$ lsof -iTCP -sTCP:LISTEN,CLOSE_WAIT
```

Case isn't important to lsof in protocol and state names.

To exclude TCP socket files in CLOSE_WAIT state, use:

```
$ lsof -itcp -stcp:^close_wait
```

Note the `^' preceding close_wait; it selects exclusion. You
can mix included and
excluded names in a comma separated list,
but you may not include and exclude the same name for the same
protocol.

To list TCP files in LISTEN state and UDP files in Idle state,
use:

```
$ lsof -i -stcp:listen -sudp:idle
```

Note: if you don't accompany the ``-s p:s" list option and
arggguments with the -i option, lsof will list all other regular
files, while applying the specified inclusion and exclusion
specifications to network files. Generally, then, you want to
use -i with -s.

14.10.1 Why doesn't my dialect support state name exclusion and inclusion?

When state name inclusion and exclusion was added, I had access
to test systems for AIX, Darwin, FreeBSD, Linux, PSTAT-based
HP-UX and Solaris.

Therefore, I was unable to add and test the support to any other
UNIX dialects.

If a dialect has the support, then the HASTCPUDPSTATE definition
in its machine.h header file will be active; if not, it will be
absent or commented out.

If your dialect doesn't have the support
and you want it added,
you will have to provide me Internet access to a test host, where
I can compile lsof and have the credentials to test the changes
the support requires. If that's possible for you, please contact
me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in
the "Subject:" line so my e-mail filter won't classify your letter
as Spam.

15.0 Pyramid Version Problems

15.0.5 Statement of deprecation

As of lsof revision 4.52 support for all Pyramid versions has
been dropped. Contact me via e-mail at <abe@purdue.edu> if you
are interested in obtaining the last lsof Pyramid distribution.

Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

16.0 SCO Problems

16.1 SCO OpenServer Problems

16.1.1 How can I avoid segmentation faults when compiling lsof?

If you have an older SCO OpenServer compiler, it may get
a segmentation fault when compiling some lsof modules.
That appears to happen because of
the -Ox optimization
action requested in the lsof Makefile.

Try changing -Ox to -O with this make invocation:

```
$ make DEBUG=-O
```

Bela Lubkin supplied this tip and Steve Williams verified
it.

16.1.2 Where is libsocket.a?

If you compile lsof and the loader says it can't find the
socket library, libsocket.a, called by the -lsocket option
in the lsof compile flags, you probably are running an SCO
OpenServer release earlier than 5.0 and don't have the
TCP/IP Development System package installed.

You may have the necessary header files, because you have
the TCP/IP run-time package installed, but if you don't
have the TCP/IP Development System package installed, you
won't have libsocket.a.

Your choices are to install the TCP/IP Development System
package or upgrade to OpenServer Release 5.0. You will
find libsocket.a in 5.0 -- you'll find all the libraries
and header files there, in fact -- and you can use gcc to
compile lsof if you don't want to install the 5.0 Development
System
package.

16.1.3 Why do I get "warning C4200" messages when I compile lsof?

When you compile lsof under OSR 3.2v4.2 (and perhaps under
earlier versions as well), you may get many compiler warning

messages of the form:

```
    node.c(183) : warning C4200: previous declarator is not
    compatible with default argument promotion
```

In my opinion this is a bug in the OSR compiler. Because the compiler cannot handle full ANSI-C prototypes, it assumes default types for function parameters as it encounters untyped in a function prototype -- e.g., in this function declaration from node.c,

```
    readrnode(ra, r)
 KA_T ra;
 struct rnode *r;
    {
    ...
```

the compiler assigns default int types to the ra and r arguments.

Then, when the compiler encounters the fully typed parameters after the function skeleton and sees parameters with types that don't match the assumptions it previously made, it whines about its own assumptions.

You can ignore these messages.

16.2 SCO|Caldera UnixWare Problems

16.2.1 Why doesn't lsof compile on my UnixWare 7.1.1 or above system?

When you Configure lsof with the "uw" abbreviation and try to compile it for UnixWare 7.1.1, you may get compiler error messages like this:

```
    UX:acomp: ERROR: "dproc.c", line 98:
 undefined struct/union member: p_pgidp
```

This suggest that you probably have a non-stop cluster UnixWare 7.1.1 system. Its <sys/proc.h> header file differs from the one on the system where I did the lsof port to UnixWare 7.1.1. I currently don't have access to a non-stop cluster system to be able to develop changes to lsof that would make it compile and work there.

If you have a non-stop cluster UnixWare 7.1.1 system, want lsof

for it, and can offer me a test account on the system, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

If you have a system with nsc_cfs and can offer me a test account on it, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

16.2.2 Why does lsof complain about node_self() on my UnixWare 7.1.1 or above system?

If lsof exits immediately after issuing this message:

```
can't identify process NSC node; node_self(): <message>
```

It means that lsof has been built to run on a NonStop Cluster (NSC) UnixWare 7.1.1 or higher system and can't get the number of the node on which it is running. Lsof uses the node number to determine the path to the kernel boot file.

You can tell if lsof has been built for NSC by looking for "-DHAS_UW_NSC" in lsof's "-v" option output.

If the system on which you're trying to run lsof isn't running an NSC kernel, you will need to build a non-NSC lsof.

16.2.3 Why does UnixWare 7.1.1 or above complain about -lcluster, node_self(), or libcluster.so?

When you build, compile, and load lsof for UnixWare 7.1.1 and above, ld may complain that it can't find the -lcluster library or that the node_self symbol is undefined. When you try to run an existing lsof binary it may complain that libcluster.so can't be found.

These messages mean the tests made by Configure on your system led it to believe your system is running a NonStop Cluster (NSC) kernel, or the lsof binary you're trying to use was built on a NonStop Cluster system. If an lsof binary was built for NSC, this shell command produces output:

```
$ strings <lsof_binary> | grep HAS_UW_NSC
```

If that's not the case, and you can rebuild lsof, set the
UW_HAS_NSC environment variable to "N" and do this:

```
$ Configure -n clean
$ UW_HAS_NSC=N
$ export UW_HAS_NSC
$ Configure -n uw
$ make
```

You can also edit Makefile and lib/Makefile. Remove
-DHAS_UW_NSC from the CFGF strings. Remove -lcluster from
the CFGL strings. Then run make again.

If you have an existing NSC lsof binary and you
want one
for a non-NSC system, you will have to build lsof yourself
on the system where you want to use it. (That's always a
good idea anyway.)

16.2.4 Why does UnixWare 7.1.1 or above lsof complain it can't read the kernel name list?

If lsof complains:

```
can't read kernel name list from <path>
```

It means that lsof can't find the booted kernel image file
at <path>. On NonStop Cluster (NSC) UnixWare 7.1.1 or
higher systems lsof determines the booted file path by
examining this file:

```
/stand/`node_self`/boot
```

If examining that file doesn't lead to an NSC path, lsof
uses:

```
/stand/1/unix
```

On non-NSC systems lsof expects the booted kernel image to
be in /stand/unix.

If your booted kernel image is in a different place, use
lsof's "-k <path>" option to specify its path.

16.2.5 Why doesn't lsof report link count, node number, and size

for some UnixWare 7.1.1 or above CFS files?

Lsof reports link count, node number, and size for open
CFS files as recorded
in their kernel node structure's
cached attributes. Sometimes not all attributes are cached
on the node where lsof runs, so lsof cannot report them.

16.2.6 Why doesn't lsof report open files on all UnixWare 7.1.1
NonStop Cluster (NSC) nodes?

Lsof can only report on files open on the node on which it
runs, because the information lsof reports comes from the
private kernel memory of the node. This may mean that
asking lsof to find a specific open file, or use of a
specific Internet address or port, may not report all open
instances on nodes other than the one used to run lsof.

You can use the NSC onnode(1) command to run lsof on specific
nodes, or the onall(1) command to run lsof on all nodes --
e.g.,

```
  $ onall lsof [options] 2>&1 | less
or
  $ onnode node-number lsof [options] 2>&1 | less
```

Note that, when lsof is run all nodes, the path name
component assembly results it reports in its NAME column
may vary, because the dynamic name cache from which lsof
gets
the components is private to the kernel of each node.

Also note the use of shell redirection in the examples to
merge the standard error file information from onnode and
onall with lsof's standard output file output. That will
put the onnode and onall node announcements in proper
sequence with lsof's output.

16.2.7 Why doesn't lsof report the UnixWare 7.1.1 NonStop Cluster
(NSC) node a process is using?

To induce lsof to report the node on which a process runs
would be a significant, non-standard modification to lsof.
It has much wider implications than merely the printing of
a number in an output column. I'm not currently (April
2001) prepared to undertake such a modification.

If you want node-specific NSC information about open files,

run lsof under the control of onall(1) or onnode(1).

```
   $ onall lsof [options] 2>&1 | less
or
   $ onnode node-number lsof [options] 2>&1 | less
```

16.2.8 Why does the compiler complain about missing UnixWare 2.1[.x] header
files?

SCO|Caldera didn't ship the following header files with
UnixWare 2.1 through 2.1.3:

```
   <fs/proc/prdata.h>
   <fs/procfs/prdata.h>
   <sys/fs/fifonode.h>
   <sys/fs/namenode.h>
```

Lsof needs those header files for its compilation. Contact
SCO|Caldera to get copies of those header files.

If you can't get the header files from SCO|Caldera, please
contact me via e-mail at <abe@purdue.edu>. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't
classify your letter as Spam.

17.0 Sun Problems

17.0.5 Statement of deprecation

Lsof support for SunOS 4.1.x was last tested at revision 4.51.
Contact me via e-mail at <abe@purdue.edu> if you're interested in
obtaining it. Make sure "lsof" appears in the "Subject:" line so
my e-mail filter won't classify your letter as Spam.

17.1 My Sun gcc-compiled lsof doesn't work -- why?

Gcc can be used to build lsof successfully. However, an
improperly installed Sun gcc compiler will usually not
produce
a working lsof.

If your Sun gcc-compiled lsof doesn't report anything, or
reports ``can't read proc table,'' or gcc refuses to compile
lsof without error, check that the gcc step that "fixes"
Sun header files was run on the system where you're using
gcc to compile lsof. As an alternative, if you have the

SunPro C 5.0 compiler or later available, use it to compile
lsof -- e.g., use the solariscc Configure abbreviations.

17.2 How can I make lsof compile with gcc under Solaris 2.[456],
2.5.1, 7, 8 or 9?

Presuming your gcc-specific header files are wrong for
Solaris, edit the lsof Configure-generated Makefile and
lib/Makefile and make this change:

```
 CFGF=   -Dsolaris=20400 ...
to
 CFGF=   -Dsolaris=20400 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20500 ...
to
 CFGF=   -Dsolaris=20500 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20501 ...
to
 CFGF=   -Dsolaris=20501 -D__STDC__=0 -I/usr/include ...
```

This is only a temporary
work-around. You really should
instruct gcc to to update your gcc-specific header files
or install a recent gcc (e.g., 3.2), which has no need for
private copies of Solaris include files.

17.3 Why does Solaris Sun C complain about system header files?

You're probably trying to use /usr/ucb/cc if you get compiler
complaints like:

```
   cc -O -Dsun -Dsolaris=20300 ...
   "/usr/include/sys/machsig.h", line 81: macro BUS_OBJERR
   redefines previous macro at "/usr/ucbinclude/sys/signal.h",
   line 444
```

Note the reference to "/usr/ucbinclude/sys/signal.h". It
reveals that the BSD Compatibility Package C compiler is
in use. Lsof requires the ANSI C version of the Solaris
C compiler, usually found in /usr/opt/bin/cc or
/opt/SUNWspro/bin/cc.

Try adding a CC string to the lsof Makefile that points to
the Sun ANSI C version of the Sun C compiler -- e.g.,

```
    CC= /usr/opt/bin/cc
or
    CC= /opt/SUNWspro/bin/cc.
```

17.4 Why doesn't lsof work under my Solaris 2.4 system?

If
lsof doesn't work under your Solaris 2.4 system -- e.g.,
it produces no output, little output, or the output is
missing command names or file descriptors -- you may have
a pair of conflicting Sun patches installed.

Solaris patch 101945-32 installs a kernel that was built
with a <sys/auxv.h> header file whose NUM_*_VECTORS
definitions don't match the ones in the <sys/auxv.h> updated
by Solaris patch 102303-02.

NUM_*_VECTORS in the kernel of patch 101945-32 are smaller
than the ones in the <sys/auxv.h> of patch 102303-02. The
consequence is that when lsof is compiled with the <sys/auxv.h>
whose NUM_*_VECTORS definitions are larger than the ones
used to compile the patched kernel, lsof's user structure
does not align with the one that the kernel employs.

If you have these two patches installed, contact Sun and
complain about the mis-match.

You may be able to work around the problem by editing
/usr/include/sys/auxv.h to have the following NUM_*_VECTORS
definitions:

```
  #define NUM_GEN_VECTORS 4
   #define NUM_SUN_VECTORS 8
```

The Configure script issues a prominent WARNING that you should
try the work-around.

I thank Leif Hedstrom for identifying the offending patches.

17.5 Where are the Solaris header files?

If you try to compile lsof under Solaris and get a compiler
complaint that it can't find system header files, perhaps
you forgot to add the header file package, SUNWhea.

17.6 Where is the Solaris /usr/src/uts/<architecture>/sys/machparam.h?

When you try to Configure lsof for Solaris 2.[23456], 2.5.1, and 7 -- e.g., on a `uname -m` == sun4m system -- Configure complains:

```
   grep: /usr/src/uts/sun4m/sys/machparam.h:
 No such file or directory
   grep: /usr/src/uts/sun4m/sys/machparam.h:
 No such file or directory
```

And when you try to compile the configured lsof, cc or gcc complains:

```
   dproc.c:530: `KERNELBASE' undeclared (first use this function)
```

The explanation is that somehow your Solaris system doesn't have the header files in /usr/src/uts it should have. Perhaps someone removed the directory to save space. Perhaps you're using a gcc installation, copied from another system. In any event, you will have to load the header files from the SUNWhea package of your Solaris distribution.

KERNELBASE is an important symbol to lsof -- it keeps lsof from sending an illegal kernel value to kvm_read() where a segmentation violation might result (a bug in the kvm library). Lsof can get illegal kernel values because it reads kernel values slowly with kvm_read() calls that the kernel is changing rapidly.

Lsof doesn't need KERNELBASE at Solaris 2.5 and above, because it has a KERNELBASE value whose address lsof can find with /dev/ksyms and whose value it can read with kvm_read(). Under Solaris 2.5 /usr/src/uts has moved to /usr/platform.

17.7 Why does Solaris lsof say ``can't read proc table''?

When lsof collects data on processes, using the kvm_*() functions to scan the kernel's proc structure table, it checks to make sure it has identified a reasonable number of them -- a minimum of three. When lsof can't identify three processes during a scan, it repeats the scan.

When five scans fail to yield three processes, lsof issues

the fatal message:

lsof: can't read proc table

and exits.

Usually lsof fails to identify three processes during a scan because its idea of the form of the proc structure differs from that being used by the kernel. Since the proc structure is defined in <sys/proc.h> and other /usr/include header files, the root cause of a proc structure discrepancy usually can be found in the composition of /usr/include.

One common way that /usr/include header files can be incorrect is that gcc was used to compile lsof, gcc used its special (i.e., "fixed") header files instead of the ones in /usr/include, and the special gcc header files weren't updated when Solaris was. Answers to these questions:

My Sun gcc-compiled lsof doesn't work -- why?

How can I make lsof compile with gcc under Solaris 2.[456], 2.5.1, 7, 8 or 9?

Why does Solaris Sun C complain about system header files?

discuss the gcc header file problem and offer suggestions on how to fix it or work around it.

It may also be that you are trying to run a version of lsof that was compiled on an older version of Solaris. For example, an lsof executable, compiled for Solaris 2.4, will produce the ``can't read proc table" message if you try to run it under Solaris 2.5. If you have compiled lsof under Solaris 2.5 and it still won't work, see if the header files in /usr/include have been updated to 2.5, or still represent a previous version of Solaris.

Another source of header file discrepancies to consider is the Solaris patch level and whether a binary kernel patch was not matched with a corresponding header file update. See the "Why doesn't lsof work under my Solaris 2.4 system?" question for an example of one in Solaris 2.4 -- there may be other such patch conflicts I don't know about.

17.8 Why does Solaris lsof complain about a bad cached clone device?

When lsof revisions below 4.04 have been run on a Solaris system and have been allowed to create a device cache file, the running of revisions 4.04 and above on the same systems may produce this complaint:

```
lsof: bad cached clone device: ...
lsof: WARNING: created device cache file: ...
```

This is the result of a change in the device cache file that took place at lsof revision 4.04. The change introduced a node number into the clone device lines of the device cache file and was done in such a way that lsof could detect device cache files whose clone lines don't have node numbers (lines created by previous lsof revisions) and recognize the need to regenerate the device cache file.

17.9 Why doesn't Solaris make generate .o files?

Solaris /usr/ccs/bin/make won't generate .o files from .c files if /usr/share/lib/make/make.rules is missing. It may be found in and installed from the SUNWsport package.

17.10 Why does lsof report some Solaris 2.3 and 2.4 lock types as `N'?

For Solaris 2.3 with patch P101318 installed at level 45 or above, and for all versions of Solaris 2.4, NFS locks are represented by a NFS-specific kernel lock structure that sometimes lacks a read or write lock type indicator. When lsof encounters such a lock structure, it reports the lock type as `N'.

17.11 Why does lsof Configure say "WARNING: no cc in ..."?

When lsof's Configure script is executed with the solariscc abbreviation it tries to make sure it's using the Sun C compiler and not the UCB substitute from /usr/ucb/cc. Thus, it looks for cc in the "standard" Sun compiler location, /opt/SUNWspro/bin.

If Configure can't find cc there, it issues the warning:

```
lsof: WARNING: no cc in /opt/SUNWspro/bin;
using cc without path.
```

and uses cc for the compiler name, letting the shell find cc with

its PATH environment variable.

You can tell Configure where to find your cc with the
SOLARIS_CCDIR cross-configuration environment variable.
(See 00XCONFIG for more information on SOLARIS_CCDIR).
For example, use this Configure shell command:

```
SOLARIS_CCDIR=/usr/special/bin Configure -n solariscc
```

(SOLARIS_CCDIR should be the full path to the directory
containing your cc.)

17.12 Solaris 7, 8 and 9 Problems

17.12.1 Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?

Solaris 7, 8 and 9 kernels come in two flavors, 32 and 64
bit. 64 bit kernels run on machines that support the SPARC
v9 instruction set architecture. Separate executables for
some programs, -- e.g., ones using libkvm like lsof -- must
be built for 32 and 64 bit kernels.

Previous Sun (e.g., SC4.0) and earlier gcc compilers will
build lsof for 32 bit kernels, but they won't build it for
64 bit kernels. Compilers that will build lsof for 64 bit
Solaris 7, 8 and 9 kernels are the Sun
WorkShop Compilers
C 5.0 and above, and recent gcc versions, e.g., 3.2.

When given the ``-xarch=v9" flag, the C 5.0 compiler and
above, and associated loader and 64 bit libraries will
build a 64 bit lsof executable; when given the "-m64" or
"-mcpu=v9" (deprecated) flags, an appropriate gcc compiler
will build a 64 bit lsof executable.

When the lsof Configure script detects a 64 bit kernel is
in use (e.g., by executing `/bin/isainfo -kv`), and when
it finds that the specified compiler is inappropriate,
it complains with these messages:

For gcc:

```
"!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
"!                                             !"
"! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT  !"
"! THIS GCC DOESN'T SUPPORT THE BUILDING OF 64 BIT       !"
"! SOLARIS EXECUTABLES.  LSOF WILL BE CONFIGURED FOR A   !"
```

```
   "! 32 BIT echo KERNEL.                          !"
   "!
                !"
   "!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
```

For Sun C:

```
  !!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!
  !                                    !
  ! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT    |
  ! THE VERSION OF SUN C AVAILABLE DOESN'T SUPPORT THE      !
  ! -xarch=v9 FLAG.  LSOF WILL BE CONFIGURED FOR A 32 BIT   !
  ! KERNEL.                                  !
  !                                    !
  !!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!
```

17.12.2 Why does Solaris 7, 8 or 9 lsof say "FATAL: lsof was compiled for..."?

Solaris 7, 8 or 9 lsof may say:

```
    lsof: FATAL: lsof was compiled for a xx bit kernel,
   but this machine has booted a yy bit kernel.

    Where: xx = 32 or 64
    yy = 64 or 32

    (xx and yy won't match.)
```

This message indicates that lsof was compiled for one size kernel and is being asked to execute on a different size one. That's not possible for programs like lsof that use libkvm.

Depending on the instruction sets for which you need Solaris 7, 8 or 9 lsof, you may need two or more versions of lsof, compiled for each kernel size, installed for use with /usr/lib/isaexec. See the "How do I install lsof for Solaris 7, 8 or 9?" section of this document for more information on that.

17.12.3 How do I build lsof for a 64 bit Solaris kernel under a 32 bit Solaris kernel?

If your Solaris system has an appropriate compiler (e.g., WorkShop Compilers C 5.0 and above, or a recent gcc like 3.2) and the 64 bit libraries have been installed, you can

force lsof's Configure script to build a 64 bit version of
lsof with:

```
$ SOLARIS_KERNBITS=64 Configure -n solariscc
```

The SOLARIS_KERNBITS environment variable is part of the
lsof cross-configuration support, described in the 00XCONFIG
file of the lsof distribution.

17.12.4 How do I install lsof for Solaris 7, 8 or 9?

If you are installing lsof where it will be used only under
the bit size kernel for which it was built, no special
installation is required.

If, however, you are installing different versions of lsof
for different bit sizes -- e.g., for use on a 64 bit NFS
server and from its 32 bit clients -- you should read the
man page for isaexec(3C) and install lsof according to its
instructions.

The executable at the directory where lsof is to be found
should be a hard link to /usr/lib/isaexec or a copy of it.
In the directory there must be instruction architecture
subdirectories -- e.g., .../sparc/ and .../sparcv9/. The
lsof for 64 bit size kernels is installed in the .../sparcv9/
subdirectory; the one for 32 bit size kernels, in .../sparc/.

For example, if you're installing 32 and 64 bit lsof
executables in /usr/local/etc, you would:

```
 # cd /usr/local/etc
 # ln /usr/lib/isaexec lsof
 # mkdir sparc sparcv9
 # install the 32 bit lsof as sparc/lsof
 # install the 64
bit lsof as sparcv9/lsof
 # chmod, chown, and chgrp sparc/lsof and
   sparcv9/lsof appropriately
```

Lsof permissions and ownerships are the same whether one
or more lsof executables are being installed, with or
without the /usr/lib/isaexec hard link.

17.12.5 Why does my Solaris 7, 8 or 9 system say it cannot execute lsof?

When you attempt to execute lsof, your Solaris 7, 8 or 9 shell may complain:

```
ksh: ./lsof: cannot execute
```

If the lsof executable exists and has the proper execution permissions, this error may be the result of trying to execute an lsof, built for a 64 bit kernel, on a 32 bit kernel.

This will tell you about the lsof executable:

```
$ file lsof
lsof: ELF 64-bit MSB executable SPARCV9 Version 1,
dynamically linked, not stripped
```

The "64-bit" notation indicates the binary was built for a 64 bit kernel. To see the running kernel bit size, use this command:

```
$ isainfo -kv
32-bit sparc kernel modules
```

The "32-bit" notation indicates a 32 bit kernel has been booted.

The only work-around is to obtain, or Configure and make, an lsof for the appropriate kernel bit size. If you Configure and make lsof on the kernel where you wish to run it the proper compiler, the lsof Configure step will generate Makefiles that can be used with make to build an appropriate lsof executable.

To compile a 64 bit lsof, you must have an appropriate compiler -- i.e., Sun WorkShop Compilers C 5.0 or higher or a recent gcc like 3.2.

17.12.6 What gcc will produce 64 bit Solaris 7, 8 and 9 executables?
8 and 9 executables?

Properly built and installed recent gcc versions -- e.g., 3.2 -- will build lsof for 64 bit Solaris kernels.

If you update your gcc version to 3.2 or later, make sure the private gcc header files become current -- i.e., clear out any private header files from a previous gcc or Solaris installation before installing the new ones, or build to

a new --prefix root and replace the old root with it after
the
build and installation are complete.

17.12.7 Why does lsof on my Solaris 7, 8 or 9 system say, "can't read namelist from /dev/ksyms?"

You're probably trying to use an lsof executable built for an earlier Solaris release on a 64 bit Solaris 7, 8 or 9 kernel. The output from `lsof -v` will tell you the build environment of your lsof executable. You should also have gotten a warning message that lsof is compiled for a different Solaris version than the one under which it is running -- something like this:

lsof: WARNING: compiled for Solaris release X; this is Y

You need to build lsof on the system where you want to use it. For 64 bit Solaris 7, 8 and 9 you need a compiler that can generate 64 bit Solaris executables -- e.g., the Sun Workshop 5 C compiler or later, or a recent gcc version like 3.2. See the "Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?" section and the ones following it for a discussion of building lsof for 64 bit Solaris
7, 8 or 9.

17.13 Solaris and COMMON

17.13.1 What does COMMON mean in the NAME column for a Solaris VCHR file?

When lsof puts COMMON or (COMMON) in the NAME column of a Solaris VCHR file, it means that the file is handled by the special file system functions of the kernel through a common vnode.

17.13.2 Why does a COMMON Solaris VCHR file sometimes seem to have an incorrect minor device number?

When lsof reports on an open file in a Solaris special file system that uses a COMMON vnode, and the file is a VCHR file, lsof tries to locate the associated device node by looking for matches on the major and minor device numbers first.

If no major and minor match results, lsof then looks for a match on pseudo and clone device files. (See /devices/pseudo.)

Those device nodes are matched specially by either their
major or minor device numbers, but not both. Hence, when
lsof finds a match under those special conditions, it may
report a value in its output DEVICE column
that differs
from one of the major and minor numbers of the device node.

Here's an example from a sun4m Solaris 7 system:

```
$ ls -li /devices/pseudo/pm@0:pm
151261 crw-rw-rw-   1 root     sys      117,  0 ...
$ lsof /devices/pseudo/pm@0:pm
COMMAND ... DEVICE ...   NODE NAME
powerd       117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
Xsun     ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
```

Note that the DEVICE value for the file with (COMMON) in
its name field has a different minor device number (1) from
what ls reports (0), while the DEVICE value for the file
without (COMMON) matches the ls output exactly. Both match
on the major device number, 117. The minor device number
mis-match is a result of the way the Solaris kernel handles
special file system common vnodes, and it's the reason lsof
puts (COMMON) after the name to signal that a mis-match is
possible.

17.14 Why don't lsof and Solaris pfiles reports always match?

/usr/proc/bin/pfiles
for Solaris 2.6, 7, 8, and 9 also
reports information on open files for processes. Sometimes
the information it reports differs from what lsof reports.

There are several reasons why this might be true. First,
because pfiles is a Sun product, based on Sun kernel
features, its developers have a better chance of knowing
exactly how open file information is organized. I sometimes
have to guess at how kernel file structure linkages are
constructed by gleaning hints from header files.

Second, lsof is aimed at providing information, specifically
device and node numbers, that can be used to identify named
file system objects -- i.e., path names. Thus, lsof tries
to make sure its device and node numbers match those reported
by stat(2). Pfiles doesn't always report numbers that
match stat(2) -- e.g., for files using clone and pseudo
devices via common vnodes like the nlist() /dev/ksyms usage.

Here's the Solaris 7 COMMON VCHR example again with additional pfiles output:

```
$ ls -li /devices/pseudo/pm@0:pm
 151261 crw-rw-rw-   1 root     sys      117,  0 ...
 $ lsof /devices/pseudo/pm@0:pm
 vic1: 10 = lsof /dev/pm
 COMMAND ... DEVICE ...   NODE NAME
 powerd  ...  117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
 Xsun    ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
 $ pfiles ...
 0: S_IFCHR ... dev:32,24 ino:61945 ... rdev:117,1
 ...
 14: S_IFCHR ... dev:32,24 ino:151261 ... rdev:117,0
```

Note that the NODE number, reported by lsof, matches what ls(1) and stat(2) report, while the ino value pfiles reports doesn't. Lsof also indicates with the (COMMON) notation that the DEVICE number is a pseudo one, derived from the character device's value. The lsof DEVICE value matches the pfiles rdev value, correct behavior for a character device, but pfiles gives no sign that it's not possible to find that character device number in /devices with ls(1) or stat(2).

17.15 Why does lsof say, "kvm_open(namelist=default, core=default): Permission denied?"

Lsof needs permission to read from the /dev/kmem and /dev/mem memory devices. Access to them is opened via a call to the kvm_open() library function and it reports the indicated message.

You must give lsof permission to read the memory devices. The super user can almost always do that, but other lsof users can do it if some group -- e.g., sys -- has permission to read the memory devices, and the lsof binary is installed with the group's ownership and with the setgid permission bit enabled.

17.16 Why is lsof slow on my busy Solaris UFS file system?

Lsof may be slow on a busy Solaris UFS file system when UFS logging has been enabled with the "logging" mount option. That option can significantly increase disk operations under certain conditions -- e.g., when a lot of

files are accessed quickly.

When only the "logging" option is specified to mount, all file accesses (atime updates) are logged to the UFS logging queue.
Each atime update requires two writes to the disk to complete it.

If you want to do UFS logging -- and there are reliability advantages to it -- consider using the "logging,noatime" mount options instead. That will shift atime updates from the logging queue to fewer and independent asynchronous operations, consequently making the UFS logging queue a smaller bottleneck.

Consult mount_ufs(1M) for more information on the logging and noatime options.

(My thanks to Casper Dik for this tip on improving the performance of UFS logging.)

17.17 Why is lsof so slow on my Solaris 8 or 9 system?

Solaris 8 has a post-release feature upgrade modifying kernel name cache (DNLC) handling that can slow lsof throughput dramatically. The feature, sometimes called negative DNLC caching, is standard in Solaris 9.

As best I can tell, when you install the Solaris 8 MU1 package, you get negative DNLC caching. If this pipe produces any output, your system has negative DNLC caching.

```
$ nm /dev/ksyms | grep negative_cache_vnode
```

The reason negative DNLC caching perturbs lsof is that a single vnode address (found in the negative_cache_vnode kernel variable) is used to mark entries in the DNLC that are not (the negative part) found on disk.

Since a single vnode address (the DNLC key lsof uses) can represent many (I've seen upwards of 30,000.) DNLC entries, their presence overloads lsof's internal DNLC hashing function. An overloaded hash function is a slow hash function, and lsof's slows to a crawl when it encounters thousands of keys that produce the same value when the lsof DNLC hash function is applied to them.

The solution is simple -- ignore negative DNLC cache keys.
They don't represent path name components lsof can use.
Lsof revisions 4.50 and above have an addition that ignores
them and the performance of those lsof revisions improves
significantly when presented with negative DNLC cache keys.

If you don't have an lsof revision at 4.51
or later, there's
a work-around. Use lsof's ``-C'' option. It disables
lsof's DNLC caching. Of course, that also inhibits the
reporting of any path name components from the kernel DNLC.
When ``-c'' is used, lsof will continue to report file
system and character device paths.

17.18 Solaris and VxFS

17.18.1 Why doesn't lsof support VxFS 3.4 on Solaris 2.6, and above?

Lsof will not support VxFS version 3.4 on Solaris 2.6 and above
unless some files from VxFS Update 2 have been installed. VxFS
3.4 FCS and VxFS 3.4 update 1 lack the header files lsof
normally uses to obtain information from the VxFS 3.4 kernel
node structure, vx_inode. VxFS 3.4 Update 2 provides a method
whereby lsof can obtain the necessary vx_inode information from
the vxfsu_get_ioffsets() function in Veritas utility
libraries.

The utility libraries (32 bit and 64 bit versions) may be
found in /opt/VRTSvxfs/lib. An ancillary header file may
be found in /opt/VRTSvxfs/include/sys/fs/vx_libutil.h.
Documentation
of the vxfsu_get_ioffsets(3) function may be
found in /opt/VRTS/man/man3/vxfsu_get_ioffsets.3.

Those files of VxFS 3.4 Update 2 may be downloaded from:

    ftp://ftp.veritas.com/pub/support/vxfs_34.i64243.tar

The vxfs_34.i64243.tar archive will unpack into an i64243
directory containing these files:

```
$ ls i64243
README
libvxfsutil.sol26.sums
libvxfsutil.sol26.tar.Z
libvxfsutil.sol27.sums
libvxfsutil.sol27.tar.Z
libvxfsutil.sol28.sums
```

libvxfsutil.sol28.tar.Z

Read README. Select the *.tar.Z file appropriate for your
Solaris version. Its contents will unpack into /opt/VRTS
and /opt/VRTSvxfs, so you will need sufficient permission
-- e.g., do it as root -- to unpack the uncompressed archive.
Once you've done that, it's a good idea to compare the
checksums of the archive you unpacked with the ones recorded
in the appropriate *.sums file. Use `sum -r` to verify
the checksums.

For example, if you want the Solaris 8
version, uncompress
and unpack libvxfsutil.sol28.tar.Z -- e.g.,

```
$ su
...
# cd i6423
# zcat libvxfsutil.sol28.tar.Z | tar xf -
```

That should create these new files and subdirectories with
the indicated checksums:

```
File or subdirectory   sum -r

/opt/VRTSvxfs/include/vxfsutil.h  03938
/opt/VRTSvxfs/lib/libvxfsutil.a  51794
/opt/VRTSvxfs/lib/sparcv9/
/opt/VRTSvxfs/lib/sparcv9/libvxfsutil.a 07420
/opt/VRTS/man/man3/
/opt/VRTS/man/man3/vxfsu_get_ioffsets.3 62480
```

Once these files are in place, run lsof's Configure script
for the solaris or solariscc abbreviation. Configure will
locate the appropriate VxFS 3.4 Update 2 files and set up
for the making of an lsof that will properly display open
VxFS 3.4 file information.

17.18.2 Why does lsof report "vx_inode: vxfsu_get_ioffsets error"
for open Solaris 2.6 and above VxFS 3.4 and above files?

Even when lsof supports VxFS 3.4 and above on Solaris 2.6 and
above, it may report "vx_inode:
vxfsu_get_ioffsets error" in
the NAME column for all VxFS files.

The usual cause is that lsof doesn't have permission to
read the file at the end of the /dev/vxportal symbolic

link. If, for example, lsof has been installed setgid(sys),
then the /dev/vxportal symbolic link destination should be
owned by the sys group and readable by it.

Update 2 for VxFS 3.4 sets the modes of the /dev/vxportal
symbolic link destination to 0640 and the group ownership
to sys. But I have had a report that the modes are wrong
in a VxFS 4.0 installation.

Another cause may be that the system has more than one version
of VxFS installed (Only one can be active.), and lsof's
Configure script did not choose the header files and libraries
for the active VxFS version. Configure opts for VxFS 4.0 and
above header files and libraries (in /opt/VRTS) in preference
to those for VxFS below 4.0 (in /opt/VRTSvxfs).

Look for the directories /opt/VRTS and /opt/VRTSvxfs. If you
have /opt/VRTS,
make sure its header and library symbolic links
point to those of the active VxFS version.

If you have both directories, look at the CFLAGS that Configure
constructed for making lsof and see which directory path
follows a -I option. If that doesn't match the directory path
of the active VxFS version, try pointing Configure at the
correct directory with the SOLARIS_VXFSINCL environment
variable -- e.g.,

    $ SOLARIS_VXFSINCL=/opt/.../include ./Configure -n solaris

17.18.3 Why does Solaris Configure claim there is no VxFS library?

The lsof Configure script, when configuring for Solaris, may
report:

    FATAL: no VxFS .../libvxfsutil.a

That fatal error message indicates lsof has found the VxFS
utility library's header files, but can't find the library
itself in the expected location adjacent to the header files.

One possible cause is an incorrect symbolic link from
/opt/VRTS/lib/sparcv9/libvxfsutil.a to the library's real
location. (Some VxFS distributions
declared the link
incorrectly.) Use `ls -lL` on that path to see if it exists.
If it doesn't exist, the link may be missing an additional
leading "../" component.

If the problem is a missing "../" from the library's link, you
can correct the link or check with Veritas/Symantec for the
patch that corrects it.

If the problem is not a missing "../", and you know the
libvxfsutil.a location, you can define its path in the
SOLARIS_VXFSLIB environment variable before running the lsof
Configure script. (See 00XCONFIG for information about using
the SOLARIS_VXFSLIB environment variable.)

If you have no libvxfsutil.a, you must obtain it from
Veritas/Symantec or find it in your VxFS installation package.

17.18.4 Why doesn't Solaris lsof report VxFS path name components?

Solaris lsof will report path name components for VxFS versions
that use the common Solaris Dynamic Name Lookup Cache (DNLC) or
on some file systems of VxFS versions that support the VxFS
Reverse Name Lookup
(RNL) facility.

VxFS versions 3.3 (approximately) and below use the common
Solaris DNLC. (I haven't been able to determine exactly when
VxFS stopped using the DNLC.) For versions above that boundary,
but below 4.0, lsof can't report path name components.

At VxFS 4.0 and above, lsof can be compiled to use the VxFS RNL
facility for reporting path names. If "-DHASVXFSRNL" appears
in the compiler flags section of lsof "-v" option output, then
the lsof Configure script detected the VxFS RNL facility and
lsof has been compiled to use it.

Lsof's use of the RNL facility can fail when the VxFS file
system disk layout version is below 6. In that case, lsof can
report no path name components. For more information, see the
vxfs_inotopath(3) manual page. any of the following commands
will show the disk layout version for a VxFS file system, when
supplied the block device or mount point on which the file
system is mounted.

```
   fstyp -v <block_device>
 or
   mkfs -m
<block_device>
 or
   vxupgrade <mount_point>
```

You must have permission to read the block device -- e.g., be the root user.

You may also be able to upgrade an older disk layout to one that will work with the RNL. See the vxupgrade(1M) man page for more information on that.

When lsof can't report VxFS path name components, it reports the file system mount point and the path name of device on which it is mounted. The device path name is enclosed in parentheses.

17.18.5 Why does Solaris 10 lsof report scrambled VxFS paths?

Solaris 10 lsof may report a bogus, scrambled path for an open VxFS file, when lsof obtains the path from a vnode's cached path. Veritas/Symantec reports that their Solaris 10 implementation has bugs in the way it handles the Solaris 10 vnode cached path and those bugs will be fixed in an upcoming patch some time after August 15, 2005.

When Solaris 10 lsof reports a path for an open VxFs file obtained via the VxFS Reverse Name Lookup facility, the path
will be correct.

Also see the answers to the questions "Why does Solaris 10 lsof sometimes report the wrong path name?" and "Why doesn't Solaris lsof report VxFS path name components?"

17.19 Large file problems

17.19.1 Why does lsof complain it can't stat(2) a Solaris 2.5.1 large file?

When given an argument that is the path to a Solaris 2.5.1 file, enable for large file operations with the O_LARGEFILE open(2) option, lsof complains that it can't stat(2) the file. That's because lsof isn't using a stat(2) call and associated structure enabled for large files.

This error has been fixed, starting at lsof revision 4.58 for Solaris 2.6 and above. That fix won't work on Solaris 2.5.1 and I no longer have access to a Solaris 2.5.1 test system to develop a separate fix.

The work-around is to avoid specifying a O_LARGEFILE path as an argument to lsof on Solaris 2.5.1. Instead use a

combination of lsof and grep to achieve the same results, albeit more clumsily.

17.20
Why does lsof get a segmentation fault on 64 bit Solaris 8 using NIS+?

I have received a report from Gary Craig that lsof produces a segmentation fault on his 64 bit Solaris 8 system using NIS+. Via an independent test program we have exonerated lsof and tracked the fault to the NIS+ __nis_server_name() function in the C name server library, -lnsl.

Lsof causes the __nis_server_name() NIS+ function to be called by calling getservent() to read entries of the port number to service name map.

The only Sun bug ID that appears to describe the problem is 4304244, although its text is unclear enough to leave room for doubt.

Until Sun eliminates the __nis_server_name() segmentation fault cause, a work-around for lsof is to use its "-P" option, causing lsof to avoid port to service name lookups.

17.21 Will lsof crash the Solaris kernel?

I've received and investigated one report that it has when the Sun hardware (a QME interface) was faulty. Today (May 23,
2002) I've learned that Sun has reports of kernel crashes caused by adb, lsof, and mdb.

The Sun investigation pinpointed a problem in the /dev/kmem kernel driver and there is a Sun bug report, 4344513, about the problem. There is a fix in Solaris 9, and patches for Solaris 7 and 8 (SPARC and x86).

To see if your Solaris system is fixed, look for a /devices/pseudo/*allkmem node.

Extensive address filtering was added to lsof revision 4.50 to forestall what I then (July 2001) believed to be only the possibility that lsof might crash Solaris. However, the filtering isn't perfect, since a filtered address might become invalid after lsof has filtered it but before lsof has delivered it to /dev/kmem. That filtering work is described in .../dialects/sun/solaris_kaddr_filters, also

available at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/solaris_kaddr_filters

The best and safest work-around is to upgrade to Solaris
9 or install an appropriate patch or its equivalent
from
this list:

```
   Solaris SPARC  x86
   Version Patch  Patch
   ======= =====  =====
     7 106541-20 106542-20
     8 108528-14 108529-14
```

17.22 Why does lsof on Solaris 7, 8, or 9 report a kvm_open() failure?

When lsof is started on some Solaris 7, 8, and 9 systems
it may report:

```
   lsof: kvm_open(namelist=default, corefile=default): \
  No such file or directory
```

Lsof revisions 4.65 and later will first report:

```
   lsof: cannot stat /dev/allkmem
```

The second message, not delivered in lsof revisions below
4.65, explains the cause of the kvm_open() failure; it
can't find /dev/allkmem.

/dev/allkmem is a device added to Solaris 7 and 8 in patches
and in the Solaris 9 FCS. See the preceding "Will lsof
crash the Solaris kernel?" section for more information on
/dev/allkmem and the patches.

The kvm_open(3KVM) function in the KVM library of patched
Solaris 7 and 8 systems and in Solaris 9 expects to find
/dev/allkmem and exits on error when it does
not.

If you have installed the patch that updated your KVM
library to a version that expects /dev/allkmem to be present
and it is not, you may need to reconfigure your system's
devices with devfsadm(1M) or enter "boot -r" to the OpenBoot
monitor's prompt (usually "ok").

17.23 Solaris and SAM-FS

17.23.1 Why does Solaris lsof report "(limited SAM-FS info)"?

Lsof 4.68 and above report "(limited SAM-FS info)" on Solaris in the NAME column after the path or file system name for all files it finds on SAM-FS file systems.

That's because no more information is known about the composition of the nodes that follow SAM-FS vnodes. If you can provide that information, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

17.23.2 Why can't lsof locate named SAM-GS files?

Solaris lsof 4.68 and above can't locate files on SAM-FS file systems when the files are named as lsof arguments because
lsof doesn't know how to locate open SAM-FS file device and node number information. (See also 'Why does Solaris lsof report "(limited SAM-FS info)?')

17.24 Lsof and Solaris 10 zones

17.24.1 How can I make lsof list the Solaris zone?

Use the lsof "-z [z]" option.

17.24.2 Why doesn't lsof work in a Solaris 10 zone?

When run from within a Solaris 10 zone, lsof will usually report:

```
lsof: can't stat(/devices): No such file or directory
```

That's because a Solaris zone usually has no /devices subdirectory, a restriction of the zone implementation intended to limit the ability of zone processes to control global system resources, including physical devices.

While a zone may have a /dev subdirectory, that subdirectory usually lacks the /dev/allkmem, /dev/mem and /dev/kmem devices lsof and the KVM library it uses require.

The work-around is to run lsof in the global zone. When it is run in a global zone lsof will be able to report on processes

running
in any zone, including the global zone.

17.24.3 Why does lsof complain it can't stat() Solaris 10 zone file systems?

When run from the global zone on Solaris 10 lsof may complain:

```
lsof: WARNING: can't stat() 15 zone file systems;
 using dev= options
```

The warning message means lsof found the reported number of file system entries in the mount table for which it didn't have permission to get stat(2) results, but which had "zone=" and "dev=" mount table options.

That is a normal restriction of Solaris 10 zones. Since the lsof warning message indicates it was able to find "dev=" options for the file systems, lsof will probably work correctly.

One work-around is to relax the restrictions on zone mount points, so that lsof can stat() them. While that may be possible by changing directory modes or group ownerships, it is probably not a good idea, because it weakens the restrictions zones are intended to provide.

Another work-around is to suppress the warning message with
lsof's "-w" option. The down side of that is that it causes the suppression of all warning messages, leading to the possibility that some non-stat() warning messages will be suppressed.

17.25 Solaris 10 problems

17.25.1 Why does Solaris 10 lsof sometimes report the wrong path name?

When a path name component is renamed -- e.g., with mv(1) -- Solaris 10 lsof may report the old component for an open file that used the component in its path before the rename. That's because Solaris 10 lsof reports the path name cached in the open file's vnode and the Solaris 10 kernel doesn't update the open vnode's cached path name when a component of it is changed.

When an open file is deleted -- e.g., with rm(1) -- the path name by which it was opened remains cached in the vnode. Lsof can be instructed to display that path name with the -X option.

The path name might be incorrect because of the rename problem described above. See the answer to the 'What does "(deleted)" mean
in the NAME column of a Solaris 10 open file?' question for more information.

Lsof is sometimes able to detect that cached path name is incorrect. In that case lsof may report only the mounted-on directory and device of the file system or it may report that the path name is of questionable accuracy by appending a trailing "(?)" to it in the NAME column.

See the answer to the "Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?" and 'What does "(?)" mean in the NAME column of a Solaris 10 open file?' questions for more information.

17.25.2 Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?

For some regular open files lsof may report only the mounted-on directory and device of the file system on which the file resides. That's because lsof was able to determine that the path name cached in the open file's vnode is incorrect.

Lsof detects the cached path name is incorrect by applying stat(2)
to it, provided that no error was detected when stat(2) was applied to the file system mounted-on directory during lsof setup. If a mounted-on directory stat(2) error was detected during setup, lsof does no cached path name analysis and simply reports it.

When the application of stat(2) to the cached path name returns a no-entry reply (the ENOENT error number), lsof concludes the path no longer exists (i.e., has been unlinked) and reports the mounted-on directory and device of the file system. That behavior can be modified with the -X option in lsof revisions 4.77 and above. See the answer to the 'What does "(deleted)" mean in the NAME column of a Solaris 10 open file?' for more information.

When the application of stat(2) to the cached path name returns a permission error reply (the EACCES or EPERM error numbers), lsof reports the cached path name and adds a trailing "(?)" to indicate the reported path name is of questionable accuracy. See the answer to the question

'What does "(?)" mean in the
NAME column of a Solaris 10 open file?' for more information.

If the application of stat(2) to the cached path name yields
any other error reply, lsof reports the mounted-on directory
and device of the file system.

When the application of stat(2) to the cached path name
succeeds, lsof compares the reported device and node numbers to
what it has obtained for the open file from kernel structures.
If they match, lsof reports the cached path name. If they
don't match, lsof instead reports the mounted-on directory and
device of the file system.

A work-around that allows lsof to apply stat(2) successfully to
cached path names is to give lsof sufficient permission to do
it -- i.e., run lsof as the root user.

17.25.3 What does "(deleted)" mean in the NAME column of a Solaris 10 open file?

When the -X option is specified to Solaris 10 lsof, it will
report in its NAME column the path name cached for a deleted
file in its vnode. The path
name will be followed by
"(deleted)".

Note that the path name cached in a file's vnode is the path
name by which the file was opened. It is not updated by the
Solaris kernel when any path name component is changed. Hence,
it may not represent the final path name the open file had.

See the answer to the "Why does Solaris 10 lsof sometimes
report the wrong path name?" question for more information on
how changing a path name component affects the correctness of a
what lsof reports.

17.25.4 What does "(?)" mean in the NAME column of a Solaris 10 open file?

When lsof encounters a path name cached in the open file's
vnode that stat(2) reports lsof lacks permission to access,
lsof adds "(?)" to the path name reported in the NAME column to
indicate the path name is of questionable accuracy.

See the answers to the "Why does Solaris 10 lsof sometimes
report the wrong path name?" and "Why does Solaris 10 lsof
sometimes report only the mounted-on directory and device?"

questions
for more information on why lsof may report a path
name of questionable accuracy.

A work-around that allows lsof to apply stat(2) successfully to
cached path names is to give lsof sufficient permission to do
it -- i.e., run lsof as the root user.

17.26 Solaris contract file problems

17.26.1 Why doesn't lsof report size, link count and node number for
Solaris 10 contract files?

Lsof doesn't report size, link count or node number for Solaris
10 contract files because I don't know how to obtain them from
contract file kernel structures.

17.26.2 Why can't lsof locate a Solaris 10 contract file by path name?

Because lsof can't find the node number of Solaris contract
files, it can't match the device and node numbers it gets from
applying stat(2) to the contract file path name with what it
finds in kernel data.

17.27 Solaris 10 and above ZFS probblems

17.27.1 Why does Configure warn that ZFS support is not enabled?

To provide ZFS support it is necessary that lsof
have access to
the definitions of ZFS structures used by the kernel. Those
definitions are made available to lsof when it runs by the
libctl library.

If lsof's Configure script finds that ZFS is indicated by the
presence of the <sys/fs/zfs.h> header file, but the libctl
library is not indicated via the <libctl.h> header file, the
script concludes that ZFS support is not possible and issues
the following warning:

  WARNING: ZFS support not enabled; libctf.h missing.

Install libctf support to remedy this problem.

17.28 Problems with Solaris 9 and above

17.28.1 Why does the compiler complain about lgrp_root on Solaris 9

and above?

When compiling lsof 4.84 on later Solaris 9 and 10 systems, the compiler may report the following error:

```
  /usr/include/sys/lgrp.h", line ...: identifier redeclared: lgrp_root
```

This error results from a conflict between usage of lgrp_root in both <sys/lgrp.h> and <sys/lgrp_user.h> when _KMEMUSER or _KERNEL is #define'd before <sys/lgrp.h> is #include'd. This problem is noted in Sunsolve bug ID 5064229.

The work-around is to use lsof revision 4.85 sources.

18.0 Lsof Features

18.1 Why doesn't lsof doesn't report on /proc entries on my system?

/proc file system support is generally available only for BSD, SYSV R4 dialects, and Tru64 UNIX (Digital UNIX, DEC OSF/1). It's also available for Linux, and Pyramid DC/OSx and Reliant UNIX.

Even on some SYSV R4 dialects I encountered many problems while trying to incorporate /proc file system support. The chief problem is that some vendors don't distribute the header file that describes the /proc file system node -- usually called prdata.h.

18.2 How do I disable the device cache file feature or alter it's behavior?

To disable the device cache file feature for a dialect, remove the HASDCACHE definition from the machine.h file of the dialect's machine.h header file. You can also use HASDCACHE to change the default prefix (``.lsof'') of the device cache file.

Be sure you consider disabling the device cache file feature carefully. Having a device cache file significantly reduces lsof startup overhead by eliminating a full scan of /dev (or /devices) once the device cache file has been created. That full scan also overloads the kernel's name cache with the names of the /dev (or /devices) nodes, reducing the

opportunity for lsof to find path name components of open files.

If you're worried about the presence of mode 0600 device cache files in the home directories of the real user IDs that execute lsof, consider these checks that lsof makes on the file before using it:

1. To read the device cache file, lsof must gain permission from access(2).

2. The device cache file's modes must be 0600 (0644 if lsof is reading a system-wide device cache file) and its size non-zero.

3. There must be a correctly formatted section count line at the beginning of the file.

4. Each section must have a header line with a count that properly numbers the lines in the section. Legal sections are device, clone, pseudo-device, and CRC.

5. The lines of a section must have the proper format.

6. All lines are included in a 16 bit CRC, and it is recorded in a non-checksummed section line at the end of the file.

7. The checksum computed when the file is read must match the checksum recorded when the file was written.

8. The checksum section line must be followed by end-of-information.

9. Lsof must be able to get matching results from stat(2) on a randomly chosen entry of the device section.

For more information on the device cache file, read the 00DCACHE file of the lsof distribution.

18.2.1 What's the risk with a perverted device cache file?

Even with the checks that lsof makes on the device cache file, it's conceivable that an intruder could modify it so

it would pass lsof's tests.

The only serious consequence I know of this
change is the
removal of a file whose major device number identifies a
socket from some user ID's device cache file. When such
a device has been removed from the device cache file, and
when lsof doesn't detect the removal, lsof may not be able
to identify socket files when executed by the affected user
ID. Only certain dialects are at risk to this attack --
e.g., SCO OpenServer and Solaris 2.x, 7, 8, and 9.

If you're tracking a network intruder with lsof, that could
be important to you. If you suspect that someone has
corrupted the device cache file you're using, I recommend
you use lsof's -Di option to tell it to ignore it and use
the contents of /dev (or /devices) instead; or remove the
device cache file (usually .lsof_hostname, where hostname
is the first component of the host's name returned by
gethostname(2)) from the user ID's home directory and let
lsof create a new one for you.

18.2.2 How do I put the full host name in a personal device cache file path?

Lsof
constructs the personal device cache file path name
from a format specified in the HASPERSDC #define in the
dialect's machine.h header file. As distributed HASPERSDC
declares the path to be ``.lsof_'' plus the first component
of the host name with the format ``.lsof_%L''.

If you want to change the way lsof constructs the personal
device cache file path name, you can change the HASPERSDC
#define and recompile lsof. If, for example, you #define
HASPERSDC to be ``.lsof_%l'' (note the lower case `l'),
Configure and remake lsof, then the personal device cache
file path will be ``.lsof_'' plus the host name returned
by gethostname(2).

See the 00DCACHE file of the lsof distribution for more
information on the formation of the personal device cache
file path and the use of the HASPERSDC #define.

18.2.3 How do I put the personal device cache file in /tmp?

Change the HASPERSDC definition in your dialect's machine.h
header file.

When you redefine HASPERSDC, make sure
you put at least
one user identification conversion in it to keep separate
the device cache files for each user of lsof. Also give
some thought to including the ``%0'' conversion to define
an alternate path for setuid-root and root processes.

Here's a definition that puts a personal device cache file
in /tmp with the name ``.lsof_login_hostname_pers''.

```
#define HASPERSDC "/tmp/.lsof_%u_%l_pers"
```

Thus the /tmp personal device cache file path for login
"abe" on host "lsof.itap.purdue.edu" would be:

```
/tmp/.lsof_abe_lsof.itap.purdue.edu_pers
```

You can add the User ID (UID) with the "%U" conversion and
the first host name component with the ``%L'' conversion.

CAUTION: be careful using absolute paths like /tmp lest
lsof processes that are setuid-root or whose real UID is
root be used to exploit some security weakness via /tmp.
Elect instead to add an alternate path for those processes
with the ``%0'' conversion. Here's an extension of the
previous HASPERSDC format
for /tmp that declares an alternate
path:

```
#define HASPERSDC "/tmp/.lsof_%u_%l_pers%0%h/.lsof_%L"
```

When the lsof process is setuid-root or its real UID is
root, presuming root's home directory is `/' and the host's
name is ``lsof.itap.purdue.edu'', the extended format yields:

```
/.lsof_vic
```

18.3 Why doesn't lsof know about AFS files on my favorite dialect?

Lsof currently supports AFS for these dialects:

AIX 4.1.4 (AFS 3.4a)
Linux 1.2.13 (AFS 3.3)
NEXTSTEP 3.2 (AFS 3.3)
Solaris 2.[56] (AFS 3.4a)

It may recognize AFS files on other versions of these

dialects, but I have no way to test that. Lsof may report
correct information for AFS files on other dialects, but
I can't test that either.

AFS support must be custom crafted for each UNIX dialect
and then tested. If lsof supports your favorite dialect,
but doesn't recognize its AFS files, probably I don't have
access to a test system. If you want AFS support badly
for your dialect, consider
helping me do the development
and testing.

18.3.1 Why doesn't lsof report node numbers for all AFS volume files,
or how do I reveal dynamic module addresses to lsof?

When AFS is implemented via dynamic kernel modules -- e.g.,
in NEXTSTEP -- lsof can't obtain the addresses of AFS
variables in the kernel that it uses to identify AFS vnodes.
It can guess that a vnode is assigned to an AFS file and
it can obtain other information about AFS files, but it
has trouble computing AFS volume node numbers.

To determine node numbers for AFS volumes other than the
root volume, /afs, lsof needs access to a hashed volume
structure pointer table. When it can't find the address
of that table, because AFS support is implemented via
dynamic kernel modules, lsof will return blanks in the
INODE column for AFS volume files. Lsof can identify the
root volume's node number (0), and can compute the node
numbers for all other AFS files.

If you have a name list file that contains the addresses
of
the AFS dynamic modules -- e.g., you saved module symbols
when you created a loadable module kernel with modload(8)
by specifying -sym -- lsof may be able to find the kernel
addresses it needs in that file.

Lsof looks up AFS dynamic kernel addresses for these dialects
at these default paths:

NEXTSTEP 3.2 /usr/vice/etc/afs_loadable

A different path to a name list file with AFS dynamic kernel
addresses may be specified with the -A option, when the -A
option description appears in lsof's -h or -? (help) output.

If any addresses appear in the -A name list file that also

appear in the regular kernel name list file -- e.g., /vmunix
-- they must match, or lsof will silently ignore the -A
addresses on the presumption that they are out of date.

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/00FAQ
No license file was found, but licenses were detected in source scan.

/*
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*/

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/lkud.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/rdev.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/dialects/linux/machine.h
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/dialects/linux/dnode.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/isfn.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/rmnt.c

* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/prfp.c
*
/lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/dialects/linux/dproc.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/dialects/linux/dmnt.c
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* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/dialects/linux/dfile.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/fino.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/dialects/linux/dsock.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/dvch.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/ptti.c
*
/lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/dialects/linux/dlsof.h
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/rnam.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/rnch.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/dialects/linux/dstore.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/rnmh.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/cvfs.c
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/pdvn.c
No license file was found, but licenses were detected in source scan.

Making and Installing lsof 4

****
| The latest release of lsof is always available via anonymous ftp |
| from lsof.itap.purdue.edu. Look in pub/tools/unix/lsof. |
****

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==========
Pre-built Lsof Binaries
==========

Avoid using pre-built lsof binaries if you can; build your own instead.

I do not support lsof binaries built and packaged by third parties nor lsof binaries built from anything but the latest lsof revision. (See the Bug Reports section for more information on
the details of lsof
support.)

One important reasone for those support restrictions is that when lsof is built its Configure script tunes lsof to the features available on the building system, often embodied in supporting header files and libraries. If the building system doesn't have support for a particular feature, lsof won't be built to support the feature on any system.

The Veritas VxFS file system is a good example of a feature that requires build-time support.

UNIX dialect version differences -- Solaris 8 versus 9, AIX 4.3.3 vesus 5.2, etc. -- can also render a pre-built lsof binary useless on a different version. So can kernel bit size.

There are so many potential pitfalls to using an lsof binary improperly that I strongly recommend lsof be used only where it is built.

==========
Making Lsof
==========

```
$ cd <lsof source directory>
$ ./Configure <your dialect's abbreviation>
$ make
```

(Consult the 00FAQ and 00XCONFIG files of the lsof distribution for information about

using make command invocations and environment
variables to override lsof default Makefile strings.)

This lsof distribution can be used with many UNIX dialects. However, it must be configured specifically for each dialect. Configuration is done in three ways: 1) by changing definitions in the machine.h header file of the UNIX dialect of interest; 2) by defining environment variable values prior to calling Configure (see the 00XCONFIG file, the Environment Variabls and Environment Variables Affecting the Configure Script sections of this file); and 3) by running the Configure shell script found in the top level of the distribution directory.

You may not need to change any machine.h definitions, but you might want to look at them anyway. Pay particular attention to the definitions that are discussed in the Security section of this file. Please read that section.

The Configure script calls three other scripts in the lsof distribution: AFSConfig; Inventory; and Customize. The
AFSConfig
script is called for selected dialects (AIX, HP-UX, NEXTSTEP, and Solaris) to locate AFS header files and determine the AFS version. See The AFSConfig Script section of this file for more information.

The Inventory script checks the completeness of the lsof distribution. Configure calls Inventory after it has accepted the dialect abbreviation, but before it configures the top-level directory for the dialect. See The Inventory Script section of this file for more information.

Configure calls the Customize script after it has configured the top-level lsof directory for the declared dialect. Customize helps you modify some of the important compile-time definitions of machine.h. See the The Customize Script section.

You should also think about where you will install lsof and its man page, and whom you will let execute lsof. Please read the Installing Lsof section of this file for information on installation considerations.

Once you have inspected the machine.h file for the
dialect for
which you want to build lsof, and made any changes you need, run the Configure script, supplying it with the abbreviation for the dialect. (See the following table.) Configure selects the appropriate options for the dialect and runs the Mksrc shell script in the dialect sub-directory to construct the appropriate source

files in the top-level distribution directory.

Configure may also run the MkKernOpts script in the dialect sub-directory to propagate kernel build options to the dialect Makefile. This is done for only a few dialects -- e.g., DC/OSx, and Reliant UNIX.

Configure creates a dialect-specific Makefile. You may want to inspect or edit this Makefile to make it conform to local conventions. If you want the Makefile to install lsof and its man page, you will have to create an appropriate install rule.

Lsof may be configured using UNIX dialect abbreviations from the following table. Alternative abbreviations are indicated by a separating `|'. For example, for SCO OpenServer you can use either the ``osr'' or the ``sco'' abbreviation:

```
 $ Configure osr
   or
 $ Configure sco
```

Abbreviations	UNIX Dialect
aix	IBM AIX 5.[23] and 5.3-ML1 using IBM's C Compiler
aixgcc	IBM AIX 5.[12] and 5.3-ML1 using gcc
darwin	Apple Darwin 7.x and 8.x for Power Macintosh systems
decosf	DEC OSF/1, Digital UNIX, Tru64 UNIX 4.0 and 5.1
digital_unix	Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
du	Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
freebsd	FreeBSD 4.x, 4.1x, 5.x and [67].x
hpux	HP-UX 11.00, 11.11 and 11.23, using HP's C Compiler, both /dev/kmem-based and PSTAT-based
hpuxgcc	HP-UX 11.00, 11.11 and 11.23, using gcc, both /dev/kmem-based and PSTAT-based
linux	Linux 2.1.72 and above for x86-based systems
netbsd	NetBSD 1.[456], 2.x and 3.x
next	NEXTSTEP 3.[13]
nextstep	NEXTSTEP 3.[13]
ns	NEXTSTEP 3.[13]
nxt	NEXTSTEP 3.[13]
openbsd	OpenBSD 2.[89] and 3.[0-9]
openstep	OPENSTEP 4.x
os	OPENSTEP 4.x
osr	SCO OpenServer Release 5.0.6, using the C compiler from the SCO developer's kit

osrgcc SCO OpenServer Release 5.0.6, using gcc
osr6 SCO Openserver 6.0.0, using the SCO C compiler
sco SCO OpenServer Release 5.0.6, using the C compiler
from the SCO developer's kit
scogcc SCO OpenServer Release 5.0.6, using gcc
solaris Solaris 2.x, 7, 8, 9 and 10 using gcc
solariscc Solaris 2.x, 7, 8, 9 and 10 using Sun's cc
tru64 Tru64 UNIX, DEC OSF/1, Digital UNIX 4.0 and 5.1
unixware SCO|Caldera UnixWare 7.1.4
uw SCO|Caldera UnixWare 7.1.4

If you have an earlier version of a dialect not named in the above list, lsof may still work on your system. I have no way of testing that myself. Try configuring for the named dialect -- e.g., if you're using Solaris 2.1, try configuring for Solaris 2.5.1.

After you have configured lsof for your UNIX dialect and have selected options
via the Customize script (See the The Customize Script section.) , use the make command to build lsof -- e.g.,

$ make

Other Configure Script Options
==========

There are three other useful options to the Configure script besides the dialect abbreviation:

-clean may be specified to remove all traces of a dialect configuration, including the Makefile, symbolic links, and library files.

-h may be specified to obtain a list of
-help Configure options, including dialect abbreviations.

-n may be specified to stop the Configure script from calling the Customize and Inventory scripts.

Caution: -n also suppresses the AFSConfig step.

Environment Variables

====================

Lsof configuration, building, and execution may be affected by
environment variable settings. See the Definitions That Affect
Compilation section in the 00PORTING file, the General Environment
Variables section in the 00XCONFIG
 file, the Dialect-Specific
Environment Variables section in the 00XCONFIG file, and the
Environment Variables Affecting the Configure Script section of
this file for more information.

Note in the General Environment Variables section of the 00XCONFIG
file that there are five environment variables that can be used to
pre-define values in lsof's -v output: LSOF_BLDCMT, LSOF_HOST,
LSOF_LOGNAME, LSOF_SYSINFO, and LSOF_USER.

Security
========

If the symbol HASSECURITY is defined, a security mode is enabled,
and lsof will allow only the root user to list all open files.
Non-root users may list only open files whose processes have the
same user ID as the real user ID of the lsof process (the one that
its user logged on with).

However, if HASNOSOCKSECURITY is also defined, anyone may list
anyone else's open socket files, provided their listing is enabled
with the "-i" option.

Lsof is distributed with the security mode disabled -- HASSECURITY
is not defined. (When HASSECURITY is not
 defined, the definition
of HASNOSOCKSECURITY has no meaning.) You can enable the security
mode by defining HASSECURITY in the Makefile or in the machine.h
header file for the specific dialect you're using -- e.g.
dialects/aix/machine.h.

The Customize script, run by Configure when it has finished its
work, gives you the opportunity to define HASSECURITY and
HASNOSOCKSECURITY. (See the The Customize Script section.)

The lsof -h output indicates the state HASSECURITY and HASNOSOCKSECURITY
had when lsof was built, reporting:

  "Only root can list all files;"
 if HASSECURITY was defined and HASNOSOCKSECURITY wasn't
 defined;

"Only root can list all files, but anyone can list socket files."
if HASSECURITY and HASNOSOCKSECURITY were both defined;

"Anyone can list all files;"
if HASSECURITY wasn't defined. (The definition of
HASNOSOCKSECURITY doesn't matter when HASSECURITY isn't
defined.)

You should carefully consider the implications of using the default
security mode.
When lsof is compiled in the absence of the
HASSECURITY definition, anyone who can execute lsof may be able to
see the presence of all open files. This may allow the lsof user
to observe open files -- e.g., log files used to track intrusions
-- whose presence you would rather not disclose.

As distributed, lsof writes a user-readable and user-writable device
cache file in the home directory of the real user ID executing
lsof. There are other options for constructing the device cache file
path, and they each have security implications.

The 00DCACHE file in the lsof distribution discusses device cache
file path construction in great detail. It tells how to disable
the various device cache file path options, or how to disable the
entire device cache file feature by removing the HASDCACHE definition
from the dialect's machine.h file. There is also information on
the device cache file feature in the 00FAQ file. (The 00DCACHE
and 00FAQ files are part of the lsof distribution package.)

The
Customize script, run by Configure after it has finished its
work, gives you the opportunity to change the compile-time options
related to the device cache file. (See The Customize Script
section.)

Since lsof may need setgid or setuid-root permission (See the Setgid
Lsof Dialects and Setuid-root Lsof Dialects sections.), its security
should always be viewed with skepticism. Lest the setgid and
setuid-root permissions allow lsof to read kernel name list or
memory files, declared with the -k and -m options, that the lsof
user can't normally access, lsof uses access(2) to establish its
real user's authority to read such files when it can't surrender
its power before opening them. This change was added at the
suggestion of Tim Ramsey.

Lsof surrenders setgid permission on most dialects when it has
gained access to the kernel's memory devices. There are exceptions

to this rule, and some lsof implementations need to run setuid-root.
(The Setgid Lsof Dialects and Setuid-root Lsof
 Dialects sections
contains a list of lsof implementations and the permissions
recommended in the distribution's Makefiles.)

The surrendering of setgid permission is controlled by the WILLDROPGID
definition in the dialect machine.h header files.

In the end you must judge for yourself and your installation the
risks that lsof presents and restrict access to it according to
your circumstances and judgement.

Run-time Warnings

Lsof can issue warning messages when it runs -- e.g., about the
state of the device cache file, about an inability to access an
NFS file system, etc. Issuance of warnings are enabled by default
in the lsof distribution.

Issuance or warnings may be disabled by default by defining
WARNINGSTATE in the dialect's machine.h. The Customize script may
also be used to change the default warning message issuance state.
(See The Customize Script section.)

The ``-w'' option description of the ``-h'' option (help) output
will indicate the default warning
 issuance state. Whatever the
state may be, it can be reversed with ``-w''.

Device Access Warnings

When lsof encounters a /dev (or /devices) directory, one of its
sub-directories, or one of their files that it cannot access with
opendir(3) or stat(2), it issues a warning message and continues.
Lsof will be more likely to issue such a warning when it has been
installed with setgid(<some group name>) permission; it won't have
trouble if it has been installed with setuid(root) permission or
is being run under the root login.

The lsof caller can inhibit or enable the warning with the -w
option, depending on the issuance state of run-time warnings. (See
the Run-time Warnings section.)

The warning messages do not appear when lsof obtains device information from a device cache file that it has built and believes to be current or when warning message issuance is disabled by default. (See the "Caches -- Name and Device" section for more information on the device
cache file.)

The lsof builder can inhibit the warning by disabling the definition of WARNDEVACCESS in the dialect's machine.h or disable all warnings by defining WARNINGSTATE. WARNDEVACCESS is defined by default for most dialects. However, some dialects have some device directory elements that are private -- e.g., HP-UX -- and it is more convenient for the lsof user if warning messages about them are inhibited.

Output from lsof's -h option indicates the status of WARNDEVACCESS. If it was defined when lsof was compiled, this message will appear:

```
  /dev warnings = enabled
```

If WARNDEVACCESS was not defined when lsof was compiled, this message will appear instead:

```
  /dev warnings = disabled
```

The Customize script, run by Configure after it has finished its work, gives you the opportunity to change the WARNDEVACCESS definition. (See The Customize Script section.)

NFS Blocks

Lsof is susceptible to NFS blocks when it tries to lstat() mounted file systems and when it does
further processing -- lstat() and readlink() -- on its optional file and file system arguments.

Lsof tries to avoid being stopped completely by NFS blocks by doing the lstat() and readlink() functions in a child process, which returns the function response via a pipe. The lsof parent limits the wait for data to arrive in the pipe with a SIGALRM, and, if the alarm trips, terminates the child process with a SIGINT and a SIGKILL.

This is as reliable and portable a method for breaking NFS deadlocks as I have found, although it still fails under some combinations of NFS version, UNIX dialect, and NFS file system mount options. It generally succeeds when the "intr" or "soft" mount options are

used; it generally fails when the "hard" mount option is used.

When lsof cannot kill the child process, a second timeout causes it to stop waiting for the killed child to complete. While the second timeout allows lsof to complete, it may leave behind a hung child process. Unless warnings are inhibited by default or with the -w option, lsof reports the possible hung child.

NFS block handling was updated with suggestions made by Andreas Stolcke. Andreas suggested using the alternate device numbers that appear in the mount tables of some dialects when it is not possible to stat(2) the mount points.

The -b option was added to direct lsof to avoid the stat(2) and readlink(2) calls that might block on NFS mount points and always use the alternate device numbers. If warning message issuance is enabled and you don't want warning messages about what lsof is doing, use the -w option, too.

The -O option directs lsof to avoid doing the potentially blocking operations in child processes. Instead, when -O is specified, lsof does them directly. While this consumes far less system overhead, it can cause lsof to hang, so I advise you to use -O sparingly.

Caches -- Name and Device
==========

Robert Ehrlich suggested that lsof obtain path name components for open files from the kernel's name cache. Where possible, lsof dialect implementations do that. The -C option inhibits kernel name cache examination.

Since AFS apparently does not use the kernel's name cache, where lsof supports AFS it is unable to identify AFS files with path name components.

Robert also suggested that lsof cache the information it obtains via stat(2) for nodes in /dev (or /devices) to reduce subsequent running time. Lsof does that, too.

In the default distribution the device cache file is stored in .lsof_hostname, mode 0600, in the home directory of the login of the user ID that executes lsof. The suffix, hostname, is the first component of the host's name returned by gethostname(2). If lsof is executed by a user ID whose home directory is NFS-mounted from

several hosts, the user ID's home directory may collect several device cache files, one for each host from which it was executed.

Lsof senses accidental or malicious damage to the device cache file with extensive integrity
checks, including the use of a 16 bit CRC.
It also tries to sense changes in /dev (or /devices) that indicate the device cache file is out of date.

There are other options for forming the device cache file path. Methods the lsof builder can use to control and employ them are documented in the separate 00DCACHE file of the lsof distribution.

Raw Sockets
==========

On many UNIX systems raw sockets use a separate network control block structure. Display of files for applications using raw sockets -- ping, using ICMP, for example -- need special support for displaying their information. This support is so dialect-specific and information to provide it so difficult to find that not all dialect revisions of lsof handle raw sockets completely.

Other Compile-time Definitions
==============================

The machine.h and dlsof.h header files for each dialect contains definitions that affect the compilation of lsof. Check the Definitions That Affect Compilation section of the
00PORTING file
of the lsof distribution for their descriptions. (Also see The Customize Script section.)

The AFSConfig Script
====================

Lsof supports AFS on some combinations of UNIX dialect and AFS version. See the AFS section of this document for a list of supported combinations.

When configuring for dialects where AFS is supported, the Configure script calls the AFSConfig script to determine the location of AFS header files and the AFS version. Configure will not call AFSConfig, even for the selected dialects, unless the file /usr/vice/etc/ThisCell exists.

The AFS header file location is recorded in the AFSHeaders file;
version, AFSVersion. Once these values have been recorded, Configure
can be told to skip the calling of AFSConfig by specifying its
(Configure's) -n option.

The Inventory Script
====================

The lsof distribution contains a script, called Inventory, that
checks the distribution for completeness. It uses the file 00MANIFEST
in the distribution
 as a reference point.

After the Configure script has accepted the dialect abbreviation,
it normally calls the Inventory script to make sure the distribution
is complete.

After Inventory has run, it creates the file ".ck00MAN" in the
top-level directory to record for itself the fact that the inventory
has been check. Should Inventory be called again, it senses this
file and asks the caller if another check is in order, or if the
check should be skipped.

The -n option may be supplied to Configure to make it bypass the
calling of the Inventory script. (The option also causes Configure
to avoid calling the Customize script.)

The lsof power user may want to define (touch) the file ".neverInv".
Configure avoids calling the Inventory script when ".neverInv"
exists.

The Customize Script
====================

Normally when the Configure script has finished its work, it calls
another shell script in the lsof distribution called Customize.
(You can tell Configure to bypass Customize
 with its -n option.)

Customize leads you through the specification of these important
compile-time definitions for the dialect's machine.h header file:

 HASDCACHE device cache file control
    HASENVDC device cache file environment
   variable name

HASPERSDC personal device cache file path
format
HASPERSDCPATH name of environment variable that
provides an additional component
of the personal device cache file
path
HASSYSDC system-wide device cache file path
HASKERNIDCK the build-time to run-time kernel
identity check
HASSECURITY the security option
HASNOSOCKSECURITY the open socket listing option whe
HASSECURITY is defined
WARNDEVACCESS /dev (or /devices) warning message
control
WARNINGSTATE warning message issuance state

The Customize script accompanies its prompting for entry of new values for these definitions with brief descriptions of each of them. More information on these definitions may be found in this file or
in the 00DCACHE and 00FAQ files of the lsof distribution.

You don't need to run Customize after Configure. You can run it later or you can edit machine.h directly.

The -n option may be supplied to Configure to make it bypass the calling of the Customize script. (The option also causes Configure to avoid calling the Inventory script.)

The lsof power user may want to define (touch) the file ".neverCust". Configure avoids calling the Customize script when ".neverCust" exists.

Customize CAUTION: the Customize script works best when it is applied to a newly configured lsof source base -- i.e., the machine.h header file has not been previously modified by the Customize script. If you have previously configured lsof, and want to rerun the Customize script, I recommend you clean out the previous configuration and create a new one:

```
$ Configure -clean
$ Configure <dialect_abbreviation>
...
Customize in response to the Customize script prompts.
```

Cautions
========

Lsof is a tool that
 is closely tied to the UNIX operating system
version. It uses header files that describe kernel structures and
reads kernel structures that typically change from OS version to
OS version, and even within a version as vendor patches are applied.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION,
ON ANOTHER. VENDOR PATCHES INFLUENCE THE VERSION IDENTITY.

On some UNIX dialects lsof versions may be even more restricted by
architecture type.

The bottom line is use lsof where you built it. If you intend to
use a common lsof binary on multiple systems, make sure all systems
run exactly the same OS version and have exactly the same patches.

Warranty
========

Lsof is provided as-is without any warranty of any kind, either
expressed or implied, including, but not limited to, the implied
warranties of merchantability and fitness for a particular purpose.
The entire risk as to the quality and performance of lsof is with
you. Should lsof prove defective, you assume the cost
 of all
necessary servicing, repair, or correction.

License
=======

Lsof has no license. Its use and distribution are subject to these
terms and conditions, found in each lsof source file. (The copyright
year in or format of the notice may vary slightly.)

```
 /*
  * Copyright 2002 Purdue Research Foundation, West Lafayette,
  * Indiana 47907.  All rights reserved.
  *
  * Written by Victor A. Abell
  *
  * This software is not subject to any license of the American
  * Telephone and Telegraph Company or the Regents of the
  * University of California.
  *
  * Permission is granted to anyone to use this software for
```

```
 * any purpose on any computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
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 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

Bug Reports
==========

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF TO THE UNIX DIALECT OR DIALECT OPTION VENDOR.

At worst such bug reports will confuse the vendor; at best, the vendor will forward the bug report to me.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF BINARIES BUILT OR DISTRIBUTED BY SOMEONE ELSE, BECAUSE I CAN'T SUPPORT THEM.

Before you send me a bug report,
please do these things:

* Make sure you try the latest lsof revision.

  + Download the latest revision from:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

  + Verify the signatures of what you have downloaded;

  + While connected to lsof.itap.purdue.edu, check for patches:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/patches

+ If patches exist, install them in the latest revision
you just downloaded. Then build the latest revision and
see if it fixes your bug.

* If you're having trouble compiling lsof with gcc, try the
UNIX dialect vendor's compiler. I don't have access to gcc on
all test systems, so my support for it is hit-and-miss, and so
is my ability to respond to gcc compilation problem reports.

* Check the lsof frequently asked questions file, 00FAQ,
to see if there's a question and answer relevant to your
problem.

* Make sure you're running the lsof you think you are
by
checking the path to it with which(1). When in doubt, use an
absolute path to lsof. Make sure that lsof binary has
sufficient permissions to do what you ask, including internal
permissions given it (e.g., restrictions on what files lsof may
report for whom) during its build.

When you send a bug report, make sure you include output from your
running of lsof's Configure script. If you were able to compile a
running lsof, please also include:

* Output from which(1) that shows the absolute path to the
lsof binary in question;

* Output from running lsof with its -h and -v options at
lsof's absolute path;

* Output from "ls -l" directed to lsof's absolute path.

If you weren't able to compile a running lsof, please send me: the
compiler error output; identification of the lsof revision you're using
(contents of the lsof version.c file); identification of your system
(full uname output or output from whatever other tool
identifies the
system); and compiler identification (e.g., gcc -v output).

Either set of output will help me understand how lsof was configured
and what UNIX dialect and lsof revision is involved.

Please send all bug reports, requests, etc. to me via e-mail at
<abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so

my e-mail filter won't classify your letter as Spam.

The 00FAQ File

The lsof distribution contains an extensive frequently asked questions file on lsof features and problems. I recommend you consult it before sending me e-mail. Use your favorite editor or pager to search 00FAQ -- e.g., supplying as a search argument some fixed text from an lsof error message.

The lsof-l Mailing List

Information about lsof, including notices about the availability of new revisions, may be found in mailings of the lsof-l listserv. For more information about it, including instructions on how to subscribe, read the 00LSOF-L file of
the lsof distribution.

Field Output Example Scripts

Example AWK and Perl 4 or 5 scripts for post-processing lsof field output are locate in the scripts sub-directory of the lsof distribution. The scripts sub-directory contains a 00README file with information about the scripts.

Field Output C Library

The lsof test suite (See "Testing Lsof."), checks basic lsof operations using field output. The test suite has its own library of C functions for common test program operations, including processing of field output. The library or selections of its functions could be adapted for use by C programs that want to process lsof field output. See the library in the file LTlib.c in the tests/ sub-directory

Testing Lsof

Lsof has an automated test suite in the tests/ sub-directory that

can be used to test some basic lsof features -- once lsof has been configured and made. Tests are arranged in three groups: basic tests that
should run on all dialects; standard tests that should run on all dialects; and optional tests that may not run on all dialects or may need special resources to run. See 00TEST for more information.)

CAUTION!!! Before you attempt to use the test suite make sure that the lsof you want to test can access the necessary kernel resources -- e.g., /dev/mem, /dev/kmem, /proc, etc. Usually you want to test the lsof you just built, so this is an important check. (See 00TEST.)

To run the basic and standard tests, using the lsof in the parent directory of tests/, do this:

```
$ cd tests
$ make test
  or $ make std
  or $ make standard
```

The basic and standard tests may be run as silently as possible, using the lsof in the parent directory of tests/, with:

```
$ cd tests
$ make auto
```

This is the "automatic" test mode, designed for use by scripts that build lsof. The caller is expected to test the make exit code to determine if the tests succeeded. The caller should divert standard output
and standard error to /dev/null to suppress make's error exit message.

The optional tests may be run, using the lsof in the parent directory of tests/, with:

```
$ cd tests
$ make opt
  or $ make optional
```

It's possible to excute individual tests, too. See the 00TEST file of this distribution for more informaiton on the tests, what they do, and how to run and possibly customize each test.

It's possible to run the tests, using an lsof other than the one in the parent directory of /tests, too. See 00TEST for information

about using the LT_LSOF_PATH environment variable to do that.

==========
Dialect Notes
==========

AFS
===

Lsof recognizes AFS files on the following combinations of UNIX
dialect and AFS versions:

 AIX 4.1.4 (AFS 3.4a)
 Linux 1.2.13 (AFS 3.3)
 NEXTSTEP 3.2 (AFS 3.3) (untested on recent lsof revisions)
 Solaris 2.6 (AFS 3.4a)
 Ultrix 4.2 RISC (AFS 3.2b) (no longer available)

Lsof has not been tested under other combinations -- e.g. HP-UX
10.10 and AFS 3.4a
 -- and probably won't even compile there. Often
when a UNIX dialect version or AFS version changes, the new header
files come into conflict, causing compiler objections.

AIX
===

Specify the aix Configure abbreviation for AIX 4.1.[45], 4.2[.1],
4.3[.123], 5L, and 5.[123].

Specify aixgcc on AIX above 4.1 to use the gcc compiler. (Gcc can't be
used to compile lsof on AIX 4.1 and below because of kernel structure
alignment differences between it and xlc.) Gcc results sometimes
depend on the version of the gcc compiler that is used.

Compilation of lsof with gcc on AIX 4.3[.123], 5L, and 5.[123] has been
sparsely tested with varying degrees of success: it has been reported
to succeed on AIX 4.3.3 and 32 bit Power AIX 5.1; to fail on ia64 AIX
5.1 and 64 bit Power AIX 5.1; and to succeed on 32 and 64 bit Power AIX
5.2. Lsof compilation with gcc hasn't been tested on AIX 5.3.

At revision 4.61 and above lsof is configured and built to match the
bit size of the kernel of Power architecture
 AIX 5.1 systems. Lsof
binaries built for 32 and 64 bit kernels are not interchangeable. See

00FAQ for more information.

The Configure script uses /usr/bin/oslevel to determine the AIX version for AIX less than 5 and ``uname -rv'' for AIX 5 and higher. If /usr/bin/oslevel isn't executable on AIX less than 5, the Configure script issues a warning message and uses ``uname -rv'' to determine the AIX version.

When Configure must use ``uname -rv'' on AIX less than 5 to determine the AIX version, the result will lack a correct third component -- e.g., the `4' of ``4.1.4''. If your AIX less than 5 system lacks lacks an executable oslevel, I suggest you edit the Configure-produced Makefile and complete the _AIXV definition in the CFGF string.

By default lsof avoids using the kernel's readx() function, causing it to be unable to report information on some text and library file references. The ``-X'' option allows the lsof user to ask for the information readx() supplies.

Lsof avoids
readx() to avoid the possibility of triggering a kernel problem, known as the Stale Segment ID kernel bug. Kevin Ruderman reported this bug to me. The bug shows up when the kernel's dir_search() function hangs, hanging the application process that called it so completely that the application process can neither be killed nor stopped. The hang is the consequence of another process (perhaps lsof) making legitimate use of the kernel's readx() function to access the kernel memory that dir_search() is examining. IBM has indicated they have no plans to fix the bug.

A fuller discussion of this bug may be found in the 00FAQ file of the lsof distribution. There you will find a description of the Stale Segment ID bug, the APAR on it, and a discussion of the sequence of events that exposes it.

I added the ``-X'' function so you can tell lsof to use readx(), but if you use ``-X'', you should be alert to its possibly serious side effects. Although readx() is normally disabled, its state
is
controlled with the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE definitions in dialects/aix/machine.h, and you can change its default state by changing those definitions. You can also change HASXOPT_ROOT via the Customize script.

You can also compile lsof with readx() use permanently enabled or disabled -- see the comments about the definitions in the dialects/aix/machine.h header file. You may want to permanently disable lsof's use of readx() if you plan to make lsof publicly

executable. You can also restrict -X to processes whose real UID
is root by defining HASXOPT_ROOT.

I have never seen lsof cause the Stale Segment ID bug to occur and
haven't had a report that it has, but I believe there is a possibility
it could.

AFS support for AIX was added with help help from Bob Cook and Jan
Tax who provided test systems.

Henry Grebler and David J. Wilson helped with lsof for AIX 4.2.

Bill Pemberton provided an AIX 4.3 test system. Andrew Kephart
and Tom Weaver provided AIX 4.3 technical
 assistance. Niklas
Edmundsson did 4.3.1 testing. Doug Crabill provided an AIX 4.3.2
test system. Jeff W. Stewart provided an AIX 4.3.3 test system.

The SMT file type for AIX 4.1.[45], 4.2[.1], and 4.3[.12] is my
fabrication. See the 00FAQ file more information on it.

Loc Le and Nasser Momtaheni of IBM provided test systems for AIX 5L and
5.1. Lsof for AIX 5L and 5.1 needs setuid-root permission to process
the -X option on systems whose architecture type is ia64.

Dale Talcott of Purdue provided AIX 5.1 and 5.2 test systems. Dale and
John Jackson of Purdue provided an AIX 5.3 test system.

Apple Darwin
============

The Apple Darwin port was provided by Allan Nathanson for version
1.2. Allan also arranged for access to a test system for maintenance
and regression testing. Dale Talcott provided a test system, too.

Allan supplied patches for updates to 1.4, 5.x, 6.x, 7.x and 8.x.

BSDI BSD/OS
===========

As of lsof revision 4.77 support for BSDI BSD/OS has been
discontinued.
  Lsof revision 4.76 with BSDI BSD/OS support may be found
on lsof.itap.purdue.edu in pub/tools/unix/lsof/src.

DEC OSF/1, Digital UNIX, Tru64 UNIX
==========

Robert Benites, Dean Brock, Angel Li, Dwight McKay, Berkley Shands, Ron Young and Steve Wilson have kindly provided test systems. Jeffrey Mogul has provided technical assistance. Dave Morrison and Lawrence MacIntyre did Digital UNIX V3.2 testing.

Lsof supports the ADVFS/MSFS layered file system product. Lsof can locate all the open files of an ADVFS/MSFS file system when its path is specified, provided the file system is listed in /etc/fstab with an ``advfs'' type. (This /etc/fstab caveat applies only to Digital UNIX 2.0.) At Digital UNIX 4.0 and Tru64 UNIX, using code provided by David Brock, lsof 4.20 and above can locate ADVFS file paths.

Testing of lsof on DEC OSF/1 and Digital UNIX 4.0 ended with lsof revision 4.74. Hence, the lsof documentation has dropped the claim that it works there.
For a distribution of lsof 4.74 that was tested on DEC OSF/1 and Digital UNIX 4.0, check pub/tools/unix/lsof/OLD/src on the lsof ftp home, lsof.itap.purdue.edu.

Lsof revisions past 4.74 have only been tested on Tru64 UNIX 5.1.

FreeBSD
=======

Bill Bormann of Purdue University provided access to several FreeBSD test systems. Ade Barkah, John Clear, Ralph Forsythe, Michael Haro, Kurt Jaeger, and William McVey have also provided FreeBSD test systems.

The FreeBSD distribution header files are augmented by header files in the dialects/freebsd/include directory.

Larry Rosenman maintains the lsof FreeBSD port package.

HP-UX
=====

Lsof has two HP-UX bases: /dev/kmem for HP-UX 11.0 and earlier; and PSTAT for HP-UX 11.11 and later. The lsof Configure script will pick the appropriate base.

To use the CCITT x.25 socket support for HP-UX, you must have the

x.25 header files in /etc/conf/x25

Pasi Kaara helped with the HP-UX port, especially with its CCITT
x.25 socket support.

Richard
 Allen provided HP-UX 10.x and 11.x test systems, as did
Mark Bixby, and Elias Halldor Agustsson. Marc Winkler helped test
the 10.20 port. Richard J. Rauenzahn provided a 64 bit HP-UX 11
test system and an HP-UX 11.11 development system.

AFS support for HP-UX was added thanks to help from Chaskiel Moses
Grundman, who provided a test system.

The /dev/kmem-based HP-UX 11.00 support is extremely fragile. It
depends on privately developed kernel structure definitions. (See
.../dialects/hpux/hpux11 for the header files making the definitions.)
Those header files and their definitions will not be updated by
HP-UX 11.00 patches, making it likely that any patch changing a
kernel structure critical to lsof will break lsof in some way.

It's possible to build a 64 bit lsof for 64 bit HP-UX 11.00 with
gcc, but you must have a gcc compiler capable of producing 64 bit
executables. See the 00FAQ file for more information.

The PSTAT-based lsof for HP-UX 11.11 and later is much more solid.
I
 am indebted to the vision of HP for providing an lsof kernel API
through the PSTAT implementation. Specifically I appreciate the
help of HP staff members Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada that made PSTAT-based HP-UX lsof
possible.

IPv6
====

Lsof has IPv6 support that has been tested for these UNIX dialects:
AIX 4.3.x; Apple Darwin 5.[12] and 6.0; the INRIA and KAME FreeBSD IPv6
implementations; PSTAT-based HP-UX; /proc-based Linux; the INRIA and
KAME NetBSD implementations; and Solaris 8 and 9. Lsof has IPv6
support that hasn't been tested for: OpenBSD (KAME); OpenUNIX 8; Tru64
Unix 5.[01]; and UnixWare 7.1.[34].

Please let me know if your UNIX dialect has IPv6 support and I'll
see if it can be supported by lsof.

Linux
=====

Tim Korb, Steve Logue, Joseph J. Nuspl Jr., and Jonathan Sergent
have provided Linux test systems.

Michael Shields helped add and test automatic handling of ELF/COFF
form names in /System.map, Marty Leisner and Keith
Parks have helped
test many lsof revisions. Marty has provided valuable suggestions,
Linux hints, and code, too.

The 00FAQ file gives some Linux tips, including information on
coping with system map file problems.

To determine the state of the Linux 2.1.x C library lseek() function,
the lsof Configure script runs a test program that must have
permission to read /dev/kmem. The test determines if the lseek()
function properly handles kernel offsets, which appear to be negative
because their high order bit is set. If the lseek() test reveals
a faulty lseek(), Configure activates the use of a private lseek()
function for kernel offset positioning. See the Linux problems
section of the 00FAQ file of the lsof distribution for more
information.

NetBSD
======

Greg Earle and Paul Kranenburg have assisted with the NetBSD ports.
Paul has provided test systems. Ray Phillips provided a NetBSA
Alpha test system. Andrew Brown also provided a test system.

The NetBSD dialect version of lsof
is compiled using the dialect
sources it shares with OpenBSD in the n+obsd dialect sub-directory.

NEXTSTEP and OPENSTEP
=====================

Virtual memory header files that allow lsof to display text references
were derived from the contents of /usr/include/vm of NEXTSTEP 2.0.
NeXT did not ship the virtual memory header files with other NEXTSTEP
or OPENSTEP versions.

You may use the RC_FLAGS environment variable to declare compiler
options outside the Makefile. A common use of this variable is to

define the architecture types to be included in a "fat" executable.
See the comments in dialects/next/Makefile for an example.

OpenBSD
=======

David Mazieres has provided OpenBSD test systems. The OpenBSD
dialect version of lsof is compiled using the dialect sources it
shares with NetBSD in the n+obsd dialect sub-directory.

Kenneth Stailey has provided OpenBSD testing and advice.

John Dzubera (Zube) reports, "lsof 4.33 compiles and runs on OpenBSD
2.3 for the pmax architecture
(decstation 3100)."

I have not tested lsof on OpenBSD 3.8, but David Mazieres reports
revision 4.76 worked on OpenBSD 3.8.

Pyramid DC/OSx and Reliant UNIX
==============================

As of lsof revision 4.52 support for all Pyramid dialects has been
discontinued. Lsof revision 4.51 with Pyramid support may be
obtained upon request. Send the request to abe@purdue.edu.

These two UNIX dialects are very similar and share dialect-specific
source files from the pyramid sub-directory.

The Reliant Unix Pyramid C compiler issues warning messages that
I haven't found a convenient way to suppress. You can ignore
warning messages about casts and conversions that lose bits. The
message "warning: undefining __STDC__" is intentionally caused by
the lsof MkKernOpts configuration script to suppress warning messages
about cast and conversion problems in standard system header files,
such as <stdio.h> and <string.h>.

Bruce Beare and Kevin Smith provided test systems.

Caldera OpenUNIX
================

Larry
Rosenman provided an OpenUNIX 8 test system. Matthew Thurmaier
provided technical assistance, along with these people from Caldera:

Jack Craig, Robert Lipe, and Bela Lubkin.

Robert Lipe supplied changes to lsof for OpenUNIX 8.0.1. Those changes were also incorporated in UnixWare 7.1.3 when it became the release name for OpenUNIX 8.0.1.

Support for lsof on OpenUNIX ended at lsof revision 4.74. The last lsof revision, 4.74, tested on OpenUNIX, may be found at the lsof "home" ftp site, lsof.itap.purdue.edu, in pub/tools/unix/lsof/OLD/src.

SCO OpenServer
==========

Dion Johnson, Bela Lubkin, and Nathan Peterson of SCO gave me copies of SCO OpenServer and the SCO OpenServer Development System 3.0 and provided technical advice for the lsof port.

Hugh Dickins, Bela Lubkin, Craig B. Olofson, and Nathan Peterson provided version 5.0 and gave technical advice for porting lsof to it. Bela provided the 5.0.4 changes. D. Chris Daniels provided a 5.0.4 test system,
Lee Penn provided one for 5.0.5, and John
Dubois for 5.0.6.

The <netdb.h> header file was accidentally omitted from some SCO OpenServer Development System releases. The Configure script will sense its absence and substitute an equivalent from the BSD distribution. The BSD <netdb.h> and the <sys/cdefs.h> header file it includes are located in the dialects/os/include sub-directory tree.

To compile lsof from its distribution sources you must have the TCP/IP and NSF headers in /usr/include. While those are optional OpenServer packages, I have access to no system that doesn't have them, so I'm unable to build lsof for such a configuration. However, it should be possible to modify the lsof Configure script and sources so lsof would compile and work without those optional packages.

If you have an OpenServer system configured without the TCP/IP and NFS packages, and want to tackle the job of building lsof for it, contact me via e-mail at <abe@purdue.edu>. I'll identify the Configure
script, header file, and source file changes you will
need to make. (Caution: this is not a simple task, or I would have already done it.)

The optional osrgcc and scogcc Configure abbreviations construct
Makefiles for compiling lsof with gcc.

The UnixWare 7.1.4 sources are used for OpenServer Release 6.0.0.
Hence there is a separate Configure abbreviation for it, "osr6".
Richard of SCO provided a test system and technical assistance.

SCO|Caldera UnixWare
==========

D. Chris Daniels, John Hughes, Ken Laing, Andrew Merril, Lee Penn, and
Matthew Thurmaier provided test systems. Bela Lubkin provided
technical assistance. Larry Rosenman provided 7.1.[34] test systems.

Solaris 2.x, 7, 8, 9 and 10
==========

SEE THE CAUTIONS SECTION OF THIS DOCUMENT.

The latest Solaris revision of lsof 4 might work under Solaris
2.[1-4] and 2.5[.1] and 7 but hasn't been tested there. I have no
test systems for those Solaris versions.

Lsof will compile with gcc and the Sun C compiler
under Solaris.
If you want to use the Sun compiler, use the solariscc Configure
abbreviation. If you use a gcc version less than 2.8 on Solaris,
make sure the gcc-specific includes have been updated for your
version of Solaris -- i.e., run the gcc fixincludes script.

Solaris 7, 8, 9 and 10 support for 64 bit kernels depends on a Sun
WorkShop or Forte C compiler version that supports the "-xarch=v9"
flag -- usually 5.0 or greater. Gcc versions 2.95 and above *may*
be configured and built for 64 bit support, but it takes some extra
work, the resulting compiler may be fragile, and the gcc developers
discourage it. I've built 64 bit capable gcc compilers for Solaris
7, 8 and 9 from gcc versions 2.95 through 3.0.1 and produced working
lsof executables with them. More information on 64 bit gcc for
Solaris may be found in the 00FAQ file.

Solaris 10 ZFS support is questionable, because Sun does not distribute
the ZFS kernel structure definition header files. The lsof Configure
script
and source code use some risky work-arounds. ZFS file system
support was made possible with help from Horst Scheuermann.

Dave Curry and Steve Kirsch provided resources for Solaris 2.x ports. Casper Dik and Gerry Singleton consulted and provided valuable assistance.

Henry Katz, Joseph Kowalski, Charles Stephens, Mike Sullivan, and Mike Tracy provided technical assistance.

AFS support was added to Solaris lsof with help from Curt Freeland, Heidi Hornstein, Michael L. Lewis, Terry McCoy, Phillip Moore, and Sushila R. Subramanian.

Casper Dik provided valuable assistance for the Solaris 8 support.

Sun has graciously provided me access to BETA versions of Solaris 2.5, 2.6, 7, 8, and 9.

John Dzubera provided Solaris 7 and 8 test systems.

Mike Miscevic provided Solaris 10 test systems.

Ultrix
======

As of lsof revision 4.52 support for Ultrix is no longer available, because I no longer have an Ultrix test system.

Terry Friedrichsen, Dwight McKay, and Jeffrey Mogul helped me with this port.

DECnet support was added to Ultrix lsof with the help of John Beacom, who kindly provided a test system. The Configure script decides that DECnet support is available if /usr/lib/libdnet.a and /usr/include/netdnet/dn.h exist and are readable.

Veritas VxFS and VxVM
=====================

Lsof supports some versions of Veritas VxFS and VxVM on some UNIX dialects. Consult the lsof Configure script for the specific dialect, and consult the lsof dialect-specific source files for the UNIX dialect of interest. Veritas support will usually be found in a source file named dnode[1-9].c.

Since Veritas rarely has a version number that can be extracted with shell commands, lsof doesn't use it. Instead, when lsof

supports Veritas, the Configure script will form compile-time definitions starting with HASVXFS. Check the lsof 00PORTING documentation file for more information.

Lsof Veritas support requires that the supporting Veritas header files be installed -- e.g., in /usr/include/sys/fs. (The location will depend in the dialect's header file conventions.)

Some information on lsof support for Veritas extensions may be found in the lsof 00DIST file. (The ChangeLog file points to 00DIST.)

Chris Kordish and Andy Thomas have provided Solaris VxFS test systems.

==========
User-contributed Dialect Support
==========

There are some user-contributed dialect versions of lsof; more information on them can be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Check the 00INDEX file there for details.

==========
Dialects No Longer Supported
==========

Because I don't have access to test systems, these UNIX dialects are no longer supported by lsof:

CDC EP/IX
/dev/kmem-based Linux
MIPS RISC/os
Motorola V/88
Pyramid DC/OSx
Pyramid Reliant UNIX
Sequent DYNIX
SGI IRIX
SunOS 4.x
Ultrix
UnixWare below 7.0

Remnants of the support lsof once provided for these dialects may be found in:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/dialects

==========
Installing Lsof
==========

The distributed Makefiles do not have actions that will install lsof. I've come to the conclusion there is no standard for installing lsof or its man page, so I no longer distribute make rules for installing them. You should adjust the Makefile for your local preferences.

The Makefile does have an install rule that will cause lsof to compile by virtue of its dependency clause. Some Makefiles also have a dependency that causes the production of a man page that is ready to install. However, the actions of the install rule will not cause the lsof executable or its man page to be installed in any UNIX system-wide directory.

Instead, after the compilation and optional man page production are completed, the install rule will produce a brief description of what actions you might add to the install rule. The description will suggest the possible modes, ownerships, permissions, and destinations your install rule might employ to install the lsof executable and man page.

As you form your install rule, keep in mind that lsof usually needs some type of special permission to do its job. That may be permission to read memory devices such as /dev/kmem, /dev/mem, or /dev/swap, or it may be authorization to read entries in the /proc file system.

Memory device access can usually be provided by setting the modes of the lsof executable so that it's effective group identifier when it runs is the same as the group that has permission to read the memory devices -- i.e., it is setgid-group. The privileged group is usually kmem, sys, or system.

Don't overlook using ACLs -- e.g., on AIX or Solaris 8 -- to give lsof permission to access memory devices. ACLs, coupled to a separate group like kmem, can be safer than giving lsof setgid authorization to a commonly used system group.

When lsof needs to read /proc file system entries, it must be
installed
 with modes that make its effective user identifier root
when it runs -- i.e., it must be setuid-root. If lsof must be
installed setuid-root (only the AIX 5L, PSTAT-based HPUX, and
/proc-based Linux, ports need such power.), then access to memory
devices is automatic (or not needed in the case of /proc-based
Linux).

Your choice of permissions for lsof may also be affected by your
desire to allow anyone to use it or your need to restrict its usage
to specific individuals. You will have to be guided by local policy
and convention in this case.

The next two sections, Setgid Lsof Dialect Versions and Setuid-root
Lsof Dialect Versions, list recommended install permissions.

The system directory where you install the lsof executable is also
open to choice. A traditional place for a tool like lsof is
/usr/local/etc, but recent changes in directory structure organization
suggest that somewhere in /opt may be more suitable.

Bear one other factor in mind when choosing a location
 for the lsof
executable -- it usually is a shared executable, requiring access
to shared libraries. Thus, locations like /sbin or /usr/sbin are
probably unsuitable.

Once you've chosen a location for the executable you may find that
the location for the man page follows -- e.g., if the executable
goes in /usr/local/etc, then the man page goes in /usr/local/man.
If the executable location doesn't imply a location for the man
page, you'll have to let local custom guide you.

Setuid-root Lsof Dialect Versions
==========

These dialect versions should be installed with setuid-root
permission -- i.e., the lsof binary should be owned by root and
its setuid execution bit (04000) should be set.

 AIX 5L and above for full use of the -X option
 Apple Darwin 8.x for Power Macintosh systems
 PSTAT-based HP-UX 11.11 and 11.23
 /proc-based Linux (generally 2.1.72 and above)

Setgid Lsof Dialect Versions
==========

These dialect versions should be installed
 with setgid permission,
owned by the group that can read kernel memory devices such as
/dev/drum, /dev/kmem, /dev/ksyms, /dev/mem, /dev/swap. ACLs may
be another mechanism (e.g., under AIX or Solaris 8) you can use to
grant read permission to the kernel memory devices.

 AIX 4.1.[45], 4.2[.1], and 4.3[.123]
 Apple Darwin 7.x for Power Macintosh systems
 DEC OSF/1, Digital UNIX, Tru64 UNIX 2.0, 3.2, 4.0, and 5.[01]
 FreeBSD 2.1.6, 2.2[.x], 3.x, 4.x, 5.x, [6789].x and 1[012].x
 NetBSD 1.[456], 2.x and 3.x
 NEXTSTEP 3.[13]
 OpenBSD 2.[89] and 3.[0-9]
 OPENSTEP 4.x
 Caldera OpenUNIX 8
 SCO OpenServer 5.0.[46]
 SCO UnixWare 7.0 and 7.1.[0134]
 Solaris 2.6, 8, 9 and 10
 Ultrix 4.2 (no longer available)

==========
Porting lsof 4 to a New UNIX Dialect
==========

If you're brave enough to consider this, look at the 00PORTING
file. Please contact me before you start. I might be able to help
you or even do the port myself.

Don't overlook
 the contrib/ directory in pub/tools/unix/lsof on my
ftp server, lsof.itap.purdue.edu. It contains user-contributed ports
of lsof to dialects I don't distribute, because I can't test new
revisions of lsof on them.

==========
Quick Start to Using lsof
==========

For information on how to get started quickly using lsof, consult
the 00QUICKSTART file of the lsof distribution. It cuts past the
formal density of the lsof man page to provide quick examples of
using lsof to solve common open file display problems.

======================
Cross-configuring Lsof
======================

Using environment variables it is possible to Configure (and possibly
build) lsof for one UNIX dialect on a different one -- e.g., you
are running Configure on a Linux 2.3 system and you want to Configure
and build lsof for Linux 2.4.

See the 00XCONFIG file of the lsof distribution for a discussion
of how to do this.

==
Environment
 Variables Affecting the Configure Script
==

Configure script actions can be modified by introducing values to
the script via environment variables. In many cases the environment
variable values take the place of test operations the Configure
script makes.

For more information on environment variables that can affect
Configure, consult the 00XCONFIG file of the lsof distribution.
See the General Environment Variables sections for descriptions of
ones that affect all dialects. Consult the Dialect-Specific
Environment Variables section for ones that might affect the dialect
you are trying to configure.

Vic Abell <abe@purdue.edu>
February 14, 2018

Found in path(s):
* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/00README
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* /lsof-4.91-2.el8-1.src.rpm-cosi-expand-archive-BpURx6mT/lsof_4.91-rh.tar.xz-cosi-expand-archive-umngN5fz/lsof_4.91-rh/lib/ckkv.c
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1.83 sudo 1.9.5p2

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

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

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1.84 time 1.9

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Random Hacker.

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

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
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>=20
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I

think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.90 run-postinsts 1.0

1.90.1 Available under license :

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1.91 shadow-securetty 4.6

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1.92 zeromq 4.2.3

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1.93 libmnl 1.0.4

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1.94 sysvinit-inittab 2.88dsf

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License: GPLv2

Found in path(s):
* /sysvinit-inittab-2.88dsf-r10.0.src.rpm-cosi-expand-archive-qTgsRCyW/sysvinit-inittab.spec

1.95 update-rc-d 0.8

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

```
force=0
dostart=0
verbose=0

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

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

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

 return 0
}
```

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

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

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

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

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

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

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

bn=$1
shift

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

   sn="$linksn"
   case
```

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

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

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

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

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

```
 stop=20
 if
[ $# -gt 1 ]; then
  start=$2
  stop=$2
 fi
 if [ $# -gt 2 ]; then
  stop=$3
 fi
 start=`printf %02d $start`
 stop=`printf %02d $stop`
 stoplinks="0/$stop 1/$stop 6/$stop"
 startlinks="2/$start 3/$start 4/$start 5/$start"
 makelinks
 ;;

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

*)
```

```
  usage
  exit 1
  ;;
esac
```

Found in path(s):
* /update-rc-d-0-8-e8e1267e-d911-11ea-8a10-0487ae13f3ca-tgz/update-rc-d-0-8-22e0692898-tar-bz2/update-rc.d-0.8-22e0692898/git/update-rc.d

1.96 talloc 2.3.3

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1.101 python-six 1.15.0

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1.102 freeradius-client 1.1.5

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Mon, 15 Nov 2004 12:20:42 +0100.

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1.103 acpid 2.0.32

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1.104 python3-future 0.18.2

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1.105 gpt-fdisk 1.0.7

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1.106 python-ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

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

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Introduction
============

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

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original

implementation was developed for instructional purposes. As
a result, the system tries to identify the most common types
of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
better suited to large grammars, and which has a number of nice
properties when dealing with syntax errors and other parsing problems.
Currently, PLY builds its parsing tables using the LALR(1)
algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
This greatly simplifies the task of parser construction since it reduces
the number of files and eliminates the need to run a separate lex/yacc
tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
Although it is not ultra-fast due to its Python implementation,
PLY can be used to parse grammars consisting of several hundred
rules (as might be found for a language like C). The lexer and LR
parser are also reasonably efficient when parsing typically
sized programs. People have used PLY to build parsers for
C, C++, ADA, and other real programming languages.

How to Use
==========

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

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

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

```
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document

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

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

    http://www.dabeaz.com/ply

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

The GitHub page for PLY can be found at:

    https://github.com/dabeaz/ply

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

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

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

The CHANGES file acknowledges those who have contributed patches.

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

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual

Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

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

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

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

  # Tokens

  t_PLUS    = r'\+'
  t_MINUS   = r'-'
  t_TIMES   = r'\*'
  t_DIVIDE  = r'/'
  t_EQUALS  = r'='
  t_LPAREN  = r'\('
  t_RPAREN  = r'\)'
  t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

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

  # Ignored characters
  t_ignore = " \t"

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

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

```
    t.lexer.skip(1)

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

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

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

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

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

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

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

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

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

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

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

  import ply.yacc as yacc
  yacc.yacc()

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

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

-- Dave

Found in path(s):
* /ply-3-11-1-tar-gz/ply-3.11/README.md
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: ply
Version: 3.11
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD

Description-Content-Type: UNKNOWN
Description:
    PLY is yet another implementation of lex and yacc for Python. Some notable
    features include the fact that its implemented entirely in Python and it
    uses LALR(1) parsing which is efficient and well suited for larger grammars.

    PLY provides most of the standard lex/yacc features including support for empty
    productions, precedence rules, error recovery, and support for ambiguous grammars.

    PLY is extremely easy to use and provides very extensive error checking.
    It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python
 :: 2

Found in path(s):
* /ply-3-11-1-tar-gz/ply-3.11/ply.egg-info/PKG-INFO
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* /ply-3-11-1-tar-gz/ply-3.11/ply/cpp.py

1.107 perl 5.32.1

1.107.1 Available under license :

[name]
Uppercase license text

[input]
=head1 Uppercase License

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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

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

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

use 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;
}
```

1.108 python3-supervisor 4.2.1

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1.109 bzip2 1.0.8

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.110 ethtool 5.10

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1.116 python3-async 0.6.2

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1.117 net-snmp 5.8

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1.119 strace 5.11

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# **********************************************************************
# Refer to the XF86Config(4/5) man page for details about the format of
# this file.
# **********************************************************************

# NOTE:  This is a NEW IMPROVED version of XF86Config-fbdev that uses the vesa
# driver instead of the fbdev driver.  Thanks to Kenneth Fanyo who pointed
# this out to me. :)

# This XF86Config file is designed for use with the VESA framebuffer.
# This generic interface should work with nearly all video cards
# (although
 not every card will support every resolution).

# With the new driver, it should no longer be required to have frame buffer
# support in the kernel, or to run it on the console.
#
# Enjoy! :)
# -- volkerdi@slackware.com
#

# **********************************************************************
# Module section -- this  section  is used to specify
# which dynamically loadable modules to load.
# **********************************************************************
#
Section "Module"

# This loads the DBE extension module.

  Load        "dbe"   # Double buffer extension

# This loads the miscellaneous extensions module, and disables
# initialisation of the XFree86-DGA extension within that module.
  SubSection  "extmod"
    Option    "omit xfree86-dga"   # don't initialise the DGA extension
  EndSubSection

# This loads the font modules
  Load        "type1"
```

```
  Load        "freetype"
  Load        "speedo"

# This loads the GLX module
  Load       "glx"

EndSection

#
 ****************************************************************************
# Files section.  This allows default font and rgb paths to be set
# ****************************************************************************

Section "Files"

# The location of the RGB database.  Note, this is the name of the
# file minus the extension (like ".txt" or ".db").  There is normally
# no need to change the default.

  RgbPath "/usr/X11R6/lib/X11/rgb"

# Multiple FontPath entries are allowed (which are concatenated together),
# as well as specifying multiple comma-separated entries in one FontPath
# command (or a combination of both methods)
#
# If you don't have a floating point coprocessor and emacs, Mosaic or other
# programs take long to start up, try moving the Type1 and Speedo directory
# to the end of this list (or comment them out).
#

  FontPath   "/usr/X11R6/lib/X11/fonts/local/"
  FontPath   "/usr/X11R6/lib/X11/fonts/misc/"
  FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/:unscaled"
   FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/:unscaled"
  FontPath   "/usr/X11R6/lib/X11/fonts/Type1/"
  FontPath   "/usr/X11R6/lib/X11/fonts/CID/"
  FontPath   "/usr/X11R6/lib/X11/fonts/Speedo/"
  FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/"
  FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/"
  FontPath   "/usr/X11R6/lib/X11/fonts/cyrillic/"

# ModulePath can be used to set a search path for the X server modules.
# The default path is shown here.

#    ModulePath "/usr/X11R6/lib/modules"

EndSection
```

```
# **********************************************************************
# Server flags section.
# **********************************************************************

Section "ServerFlags"

# Uncomment this to cause a core dump at the spot where a signal is
# received.  This may leave the console in an unusable state, but may
# provide a better stack trace in the core dump to aid in debugging

#    Option     "NoTrapSignals"

# Uncomment this to disable the <Crtl><Alt><Fn>
 VT switch sequence
# (where n is 1 through 12).  This allows clients to receive these key
# events.

#    Option     "DontVTSwitch"

# Uncomment this to disable the <Crtl><Alt><BS> server abort sequence
# This allows clients to receive this key event.

#    Option     "DontZap"

# Uncomment this to disable the <Crtl><Alt><KP_+>/<KP_-> mode switching
# sequences.  This allows clients to receive these key events.

#    Option     "DontZoom"

# Uncomment this to disable tuning with the xvidtune client. With
# it the client can still run and fetch card and monitor attributes,
# but it will not be allowed to change them. If it tries it will
# receive a protocol error.

#    Option     "DisableVidModeExtension"

# Uncomment this to enable the use of a non-local xvidtune client.

#    Option     "AllowNonLocalXvidtune"

# Uncomment this to disable dynamically modifying the input device
# (mouse and keyboard) settings.

#    Option     "DisableModInDev"

# Uncomment this to enable the use of a
 non-local client to
# change the keyboard or mouse settings (currently only xset).
```

```
#    Option     "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

#    Option      "blank time"    "10"    # 10 minutes

# Set the DPMS timeouts.  These are set here because they are global
# rather than screen-specific.  These settings alone don't enable DPMS.
# It is enabled per-screen (or per-monitor), and even then only when
# the driver supports it.

#    Option      "standby time"  "20"
#    Option      "suspend time"  "30"
#    Option      "off time"      "60"

# On some platform the server needs to estimate the sizes of PCI
# memory and pio ranges. This is done by assuming that PCI ranges
# don't overlap. Some broken BIOSes tend to set ranges of inactive
# devices wrong. Here one can adjust how aggressive the assumptions
# should be. Default is 0.

# Option   "EstimateSizesAggresively" "0"

EndSection

# **********************************************************************
#
 Input devices
# **********************************************************************

# **********************************************************************
# Core keyboard's InputDevice section
# **********************************************************************

Section "InputDevice"

  Identifier "Keyboard1"
  Driver "Keyboard"
# For most OSs the protocol can be omitted (it defaults to "Standard").
# When using XQUEUE (only for SVR3 and SVR4, but not Solaris),
# uncomment the following line.

#    Option     "Protocol"      "Xqueue"

# Set the keyboard auto repeat parameters.  Not all platforms implement
# this.
```

```
#    Option     "AutoRepeat"    "500 5"

# Specifiy which keyboard LEDs can be user-controlled (eg, with xset(1)).

#    Option     "Xleds" "1 2 3"

# To disable the XKEYBOARD extension, uncomment XkbDisable.

#    Option     "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults).  For example,
 for a European
# keyboard, you will probably want to use one of:
#
#    Option     "XkbModel"      "pc102"
#    Option     "XkbModel"      "pc105"
#
# If you have a Microsoft Natural keyboard, you can use:
#
#    Option     "XkbModel"      "microsoft"
#
# If you have a US "windows" keyboard you will want:
#
#    Option     "XkbModel"      "pc104"
#
# Then to change the language, change the Layout setting.
# For example, a german layout can be obtained with:
#
#    Option     "XkbLayout"     "de"
#
# or:
#
#    Option     "XkbLayout"     "de"
#    Option     "XkbVariant"    "nodeadkeys"
#
# If you'd like to switch the positions of your capslock and
# control keys, use:
#
#    Option     "XkbOptions"    "ctrl:swapcaps"


# These are the default XKB settings for XFree86
#
#    Option     "XkbRules"      "xfree86"
#    Option     "XkbModel"      "pc101"
#    Option     "XkbLayout"     "us"
#    Option     "XkbVariant"    ""
```

```
#    Option     "XkbOptions"    ""

EndSection


# **********************************************************************
#
 Core Pointer's InputDevice section
# **********************************************************************

Section "InputDevice"

# Identifier and driver

   Identifier "Mouse1"
   Driver "mouse"

# On platforms where PnP mouse detection is supported the following
# protocol setting can be used when using a newer PnP mouse:

#    Option     "Protocol"      "Auto"

# The available mouse protocols types that you can set below are:
#    Auto BusMouse GlidePoint GlidePointPS/2 IntelliMouse IMPS/2
#    Logitech Microsoft MMHitTab MMSeries Mouseman MouseManPlusPS/2
#    MouseSystems NetMousePS/2 NetScrollPS/2 OSMouse PS/2 SysMouse
#    ThinkingMouse ThinkingMousePS/2 Xqueue
   Option "Protocol"    "PS/2"

# The mouse device.  The device is normally set to /dev/mouse,
# which is usually a symbolic link to the real device.

   Option "Device"      "/dev/mouse"
#   Option "Device"      "/dev/psaux"
#   Option "Device"      "/dev/ttyS0"
#
   Option "Device"      "/dev/ttyS1"

# When using XQUEUE, comment out the above two lines, and uncomment
# the following line.

#    Option "Protocol" "Xqueue"

# Baudrate and SampleRate are only for some Logitech mice. In
# almost every case these lines should be omitted.

#    Option "BaudRate"  "9600"
#    Option "SampleRate" "150"
```

```
# Emulate3Buttons is an option for 2-button Microsoft mice
# Emulate3Timeout is the timeout in milliseconds (default is 50ms)

#    Option "Emulate3Buttons"
#    Option "Emulate3Timeout"    "50"

# ChordMiddle is an option for some 3-button Logitech mice

#    Option "ChordMiddle"

EndSection

# Some examples of extended input devices

# Section "InputDevice"
#    Identifier "spaceball"
#    Driver     "magellan"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "spaceball2"
#    Driver     "spaceorb"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier
 "touchscreen0"
#    Driver     "microtouch"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "1412"
#    Option     "MaxX"          "15184"
#    Option     "MinY"          "15372"
#    Option     "MaxY"          "1230"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonNumber"  "1"
#    Option     "SendCoreEvents"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen1"
#    Driver     "elo2300"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "231"
#    Option     "MaxX"          "3868"
```

```
#    Option     "MinY"          "3858"
#    Option     "MaxY"          "272"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonThreshold"       "17"
#    Option     "ButtonNumber"  "1"
#    Option     "SendCoreEvents"
# EndSection

# ********************************************************************
# Monitor section
# ********************************************************************

#
 Any number of monitor sections may be present

Section "Monitor"

   Identifier  "My Monitor"

# HorizSync is in kHz unless units are specified.
# HorizSync may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

   HorizSync   31.5 - 50.0

#    HorizSync 30-64         # multisync
#    HorizSync 31.5, 35.2    # multiple fixed sync frequencies
#    HorizSync 15-25, 30-50  # multiple ranges of sync frequencies

# VertRefresh is in Hz unless units are specified.
# VertRefresh may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

   VertRefresh 40-90

EndSection


# ********************************************************************
#
 Graphics device section
# ********************************************************************
```

```
# Any number of graphics device sections may be present

Section "Device"
  Identifier  "VESA Framebuffer"
  Driver      "vesa"
  #VideoRam    4096
  # Insert Clocks lines here if appropriate
EndSection

# ************************************************************************
# Screen sections
# ************************************************************************

# Any number of screen sections may be present.  Each describes
# the configuration of a single screen.  A single specific screen section
# may be specified from the X server command line with the "-screen"
# option.
Section "Screen"
  Identifier  "Screen 1"
  Device      "VESA Framebuffer"
  Monitor     "My Monitor"

# If your card can handle it, a higher default color depth (like 24 or 32)
# is highly recommended.

#   DefaultDepth 8
#   DefaultDepth 16
  DefaultDepth 24
#   DefaultDepth 32

# "1024x768"
 is also a conservative usable default resolution.  If you
# have a better monitor, feel free to try resolutions such as
# "1152x864", "1280x1024", "1600x1200", and "1800x1400" (or whatever your
# card/monitor can produce)

  Subsection "Display"
     Depth       8
     Modes "1024x768" "800x600" "640x480"
  EndSubsection
  Subsection "Display"
     Depth       16
     Modes "1024x768" "800x600" "640x480"
  EndSubsection
  Subsection "Display"
     Depth       24
     Modes "1024x768" "800x600" "640x480"
  EndSubsection
```

```
  Subsection "Display"
    Depth       32
    Modes "1024x768" "800x600" "640x480"
  EndSubsection

EndSection

# **********************************************************************
# ServerLayout sections.
# **********************************************************************

# Any number of ServerLayout sections may be present.  Each describes
# the way multiple screens are organised.  A specific ServerLayout
# section
 may be specified from the X server command line with the
# "-layout" option.  In the absence of this, the first section is used.
# When now ServerLayout section is present, the first Screen section
# is used alone.

Section "ServerLayout"

# The Identifier line must be present
  Identifier  "Simple Layout"

# Each Screen line specifies a Screen section name, and optionally
# the relative position of other screens.  The four names after
# primary screen name are the screens to the top, bottom, left and right
# of the primary screen.  In this example, screen 2 is located to the
# right of screen 1.

  Screen "Screen 1"

# Each InputDevice line specifies an InputDevice section name and
# optionally some options to specify the way the device is to be
# used.  Those options include "CorePointer", "CoreKeyboard" and
# "SendCoreEvents".

  InputDevice "Mouse1" "CorePointer"
  InputDevice "Keyboard1" "CoreKeyboard"

EndSection

Found in path(s):
* /pkgtools-tar-gz/etc/X11/XF86Config-vesa
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* /pkgtools-tar-gz/sbin/makepkg
* /pkgtools-tar-gz/usr/X11R6/bin/xwmconfig
* /pkgtools-tar-gz/sbin/installpkg
* /pkgtools-tar-gz/usr/X11R6/bin/xfree86setup
* /pkgtools-tar-gz/sbin/makebootdisk
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**
Refer to the XF86Config(4/5) man page for details about the format of
this file.
**

```
# This XF86Config file is designed for use with the Linux framebuffer console.
# This generic interface should work with nearly all video cards (although
# not every card will support every resolution).  To use the Linux framebuffer
# console, you need to enable these kernel options:
# Using 'make menuconfig', in
 'console drivers', enable:
#   [*] VGA text console
#   [*] Video mode selection support
#   [*] Support for frame buffer devices (EXPERIMENTAL)
#   [*] VESA VGA graphics console
#   [*] Advanced low level driver options
#   <*> 8 bpp packed pixels support
#   <*> 16 bpp packed pixels support
#   <*> 24 bpp packed pixels support
#   <*> 32 bpp packed pixels support
#   <*> VGA characters/attributes support
#   [*] Select compiled-in fonts
#   [*]   VGA 8x8 font
#   [*]   VGA 8x16 font
# If you have a Matrox or ATI Mach64, you might try enabling the options having
# to do with those cards as well.  However, if the card is VESA compliant, you
# don't really need to (and it might cause problems, possibly)
#
# Next, if this file is not already named /etc/X11/XF86Config, make a copy
# with that name.  This file ships with the name XF86Config-fbdev to avoid
# overwriting an existing config file.
#
# To get the kernel to start in VESA framebuffer mode, you need to pass it
# a vga= init string
 at boot time.  For example, if you use LILO you'll
# probably find a vga=normal string in your /etc/lilo.conf.  If you edit that
# to one of the values in this table:
#
#   Colours   640x480 800x600 1024x768 1280x1024 1600x1200
#  --------+-----------------------------------------------
#  256     |  769     771     773      775       796
#  32,768  |  784     787     790      793       797
#  65,536  |  785     788     791      794       798
#  16.8M   |  786     789     792      795       799
#
#  ...such as this for 1024x768x64k:
#  vga = 791
#  and then reinstall LILO by running 'lilo' as root, then at the next boot
#  Linux should start in a VESA framebuffer console mode.
#
# For more information on how to activate the Linux frame buffer, see
# /usr/src/linux/Documentation/fb/vesafb.txt.
#
```

```
# Enjoy! :)
# -- volkerdi@slackware.com
#

# ********************************************************************
# Module section -- this  section  is used to specify
# which dynamically
 loadable modules to load.
# ********************************************************************
#
Section "Module"

# This loads the DBE extension module.

  Load       "dbe"   # Double buffer extension

# This loads the miscellaneous extensions module, and disables
# initialisation of the XFree86-DGA extension within that module.
  SubSection  "extmod"
    Option    "omit xfree86-dga"   # don't initialise the DGA extension
  EndSubSection

# This loads the font modules
  Load       "type1"
  Load       "freetype"
  Load       "speedo"

# This loads the GLX module
  Load      "glx"

EndSection

# ********************************************************************
# Files section.  This allows default font and rgb paths to be set
# ********************************************************************

Section "Files"

# The location of the RGB database.  Note, this is the name of the
# file minus the extension (like ".txt" or ".db").  There is normally
# no
 need to change the default.

  RgbPath "/usr/X11R6/lib/X11/rgb"

# Multiple FontPath entries are allowed (which are concatenated together),
# as well as specifying multiple comma-separated entries in one FontPath
# command (or a combination of both methods)
```

```
#
# If you don't have a floating point coprocessor and emacs, Mosaic or other
# programs take long to start up, try moving the Type1 and Speedo directory
# to the end of this list (or comment them out).
#

   FontPath   "/usr/X11R6/lib/X11/fonts/local/"
   FontPath   "/usr/X11R6/lib/X11/fonts/misc/"
   FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/:unscaled"
   FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/:unscaled"
   FontPath   "/usr/X11R6/lib/X11/fonts/Type1/"
   FontPath   "/usr/X11R6/lib/X11/fonts/CID/"
   FontPath   "/usr/X11R6/lib/X11/fonts/Speedo/"
   FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/"
   FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/"
   FontPath   "/usr/X11R6/lib/X11/fonts/cyrillic/"

# ModulePath can be
 used to set a search path for the X server modules.
# The default path is shown here.

#    ModulePath "/usr/X11R6/lib/modules"

EndSection

# **********************************************************************
# Server flags section.
# **********************************************************************

Section "ServerFlags"

# Uncomment this to cause a core dump at the spot where a signal is
# received.  This may leave the console in an unusable state, but may
# provide a better stack trace in the core dump to aid in debugging

#    Option     "NoTrapSignals"

# Uncomment this to disable the <Crtl><Alt><Fn> VT switch sequence
# (where n is 1 through 12).  This allows clients to receive these key
# events.

#    Option     "DontVTSwitch"

# Uncomment this to disable the <Crtl><Alt><BS> server abort sequence
# This allows clients to receive this key event.

#    Option     "DontZap"
```

```
# Uncomment this to disable the <Crtl><Alt><KP_+>/<KP_-> mode switching
# sequences.  This allows
 clients to receive these key events.

#    Option     "DontZoom"

# Uncomment this to disable tuning with the xvidtune client. With
# it the client can still run and fetch card and monitor attributes,
# but it will not be allowed to change them. If it tries it will
# receive a protocol error.

#    Option     "DisableVidModeExtension"

# Uncomment this to enable the use of a non-local xvidtune client.

#    Option     "AllowNonLocalXvidtune"

# Uncomment this to disable dynamically modifying the input device
# (mouse and keyboard) settings.

#    Option     "DisableModInDev"

# Uncomment this to enable the use of a non-local client to
# change the keyboard or mouse settings (currently only xset).

#    Option     "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

#    Option      "blank time"    "10"    # 10 minutes

# Set the DPMS timeouts.  These are set here because they are global
# rather than screen-specific.  These settings alone don't enable DPMS.
# It
 is enabled per-screen (or per-monitor), and even then only when
# the driver supports it.

#    Option      "standby time"  "20"
#    Option      "suspend time"  "30"
#    Option      "off time"      "60"

# On some platform the server needs to estimate the sizes of PCI
# memory and pio ranges. This is done by assuming that PCI ranges
# don't overlap. Some broken BIOSes tend to set ranges of inactive
# devices wrong. Here one can adjust how aggressive the assumptions
# should be. Default is 0.

# Option   "EstimateSizesAggresively" "0"
```

```
EndSection

# **********************************************************************
# Input devices
# **********************************************************************

# **********************************************************************
# Core keyboard's InputDevice section
# **********************************************************************

Section "InputDevice"

  Identifier "Keyboard1"
  Driver "Keyboard"
# For most OSs the protocol
 can be omitted (it defaults to "Standard").
# When using XQUEUE (only for SVR3 and SVR4, but not Solaris),
# uncomment the following line.

#    Option     "Protocol"      "Xqueue"

# Set the keyboard auto repeat parameters.  Not all platforms implement
# this.

#    Option     "AutoRepeat"    "500 5"

# Specifiy which keyboard LEDs can be user-controlled (eg, with xset(1)).

#    Option     "Xleds" "1 2 3"

# To disable the XKEYBOARD extension, uncomment XkbDisable.

#    Option     "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults).  For example, for a European
# keyboard, you will probably want to use one of:
#
#    Option     "XkbModel"      "pc102"
#    Option     "XkbModel"      "pc105"
#
# If you have a Microsoft Natural keyboard, you can use:
#
#    Option     "XkbModel"      "microsoft"
#
# If you have a US "windows" keyboard you will want:
#
```

```
#    Option     "XkbModel"      "pc104"
#
# Then to change the language,
 change the Layout setting.
# For example, a german layout can be obtained with:
#
#    Option     "XkbLayout"     "de"
#
# or:
#
#    Option     "XkbLayout"     "de"
#    Option     "XkbVariant"    "nodeadkeys"
#
# If you'd like to switch the positions of your capslock and
# control keys, use:
#
#    Option     "XkbOptions"    "ctrl:swapcaps"


# These are the default XKB settings for XFree86
#
#    Option     "XkbRules"      "xfree86"
#    Option     "XkbModel"      "pc101"
#    Option     "XkbLayout"     "us"
#    Option     "XkbVariant"    ""
#    Option     "XkbOptions"    ""

EndSection


# **********************************************************************
# Core Pointer's InputDevice section
# **********************************************************************

Section "InputDevice"

# Identifier and driver

   Identifier "Mouse1"
   Driver "mouse"

# On platforms where PnP mouse detection is supported the following
# protocol setting can be used when using a newer
 PnP mouse:

#    Option     "Protocol"      "Auto"

# The available mouse protocols types that you can set below are:
```

```
#    Auto BusMouse GlidePoint GlidePointPS/2 IntelliMouse IMPS/2
#    Logitech Microsoft MMHitTab MMSeries Mouseman MouseManPlusPS/2
#    MouseSystems NetMousePS/2 NetScrollPS/2 OSMouse PS/2 SysMouse
#    ThinkingMouse ThinkingMousePS/2 Xqueue
   Option "Protocol"    "PS/2"

# The mouse device.  The device is normally set to /dev/mouse,
# which is usually a symbolic link to the real device.

   Option "Device"      "/dev/mouse"
#   Option "Device"      "/dev/psaux"
#   Option "Device"      "/dev/ttyS0"
#   Option "Device"      "/dev/ttyS1"

# When using XQUEUE, comment out the above two lines, and uncomment
# the following line.

#    Option "Protocol" "Xqueue"

# Baudrate and SampleRate are only for some Logitech mice. In
# almost every case these lines should be omitted.

#    Option "BaudRate"  "9600"
#    Option "SampleRate" "150"

# Emulate3Buttons is an option
 for 2-button Microsoft mice
# Emulate3Timeout is the timeout in milliseconds (default is 50ms)

#    Option "Emulate3Buttons"
#    Option "Emulate3Timeout"    "50"

# ChordMiddle is an option for some 3-button Logitech mice

#    Option "ChordMiddle"

EndSection

# Some examples of extended input devices

# Section "InputDevice"
#    Identifier "spaceball"
#    Driver     "magellan"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "spaceball2"
```

```
#    Driver     "spaceorb"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen0"
#    Driver     "microtouch"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "1412"
#    Option     "MaxX"          "15184"
#    Option     "MinY"          "15372"
#    Option     "MaxY"          "1230"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonNumber"  "1"
#    Option
   "SendCoreEvents"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen1"
#    Driver     "elo2300"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "231"
#    Option     "MaxX"          "3868"
#    Option     "MinY"          "3858"
#    Option     "MaxY"          "272"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonThreshold"       "17"
#    Option     "ButtonNumber"  "1"
#    Option     "SendCoreEvents"
# EndSection

# ****************************************************************************
# Monitor section
# ****************************************************************************

# Any number of monitor sections may be present

Section "Monitor"

   Identifier  "My Monitor"

# HorizSync is in kHz unless units are specified.
# HorizSync may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR
```

```
 MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

   HorizSync   31.5 - 50.0

#    HorizSync 30-64         # multisync
#    HorizSync 31.5, 35.2    # multiple fixed sync frequencies
#    HorizSync 15-25, 30-50  # multiple ranges of sync frequencies

# VertRefresh is in Hz unless units are specified.
# VertRefresh may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

   VertRefresh 40-90

EndSection


# **********************************************************************
# Graphics device section
# **********************************************************************

# Any number of graphics device sections may be present

Section "Device"
   Identifier  "VESA Framebuffer"
   Driver      "fbdev"
   #VideoRam    4096
   # Insert Clocks lines here if appropriate
EndSection

# **********************************************************************
#
 Screen sections
# **********************************************************************

# Any number of screen sections may be present.  Each describes
# the configuration of a single screen.  A single specific screen section
# may be specified from the X server command line with the "-screen"
# option.
Section "Screen"
   Identifier  "Screen 1"
   Device      "VESA Framebuffer"
   Monitor     "My Monitor"

# You shouldn't need to set a default depth as the server will use
```

```
# whatever the framebuffer is set to.  If you insist on setting it, make
# sure it matches the setting for your framebuffer.
#   DefaultDepth 8

  Subsection "Display"
     Depth       8
  EndSubsection
  Subsection "Display"
     Depth       16
  EndSubsection
  Subsection "Display"
     Depth       24
  EndSubsection
  Subsection "Display"
     Depth       32
  EndSubsection

EndSection

# ********************************************************************
#
 ServerLayout sections.
# ********************************************************************

# Any number of ServerLayout sections may be present.  Each describes
# the way multiple screens are organised.  A specific ServerLayout
# section may be specified from the X server command line with the
# "-layout" option.  In the absence of this, the first section is used.
# When now ServerLayout section is present, the first Screen section
# is used alone.

Section "ServerLayout"

# The Identifier line must be present
  Identifier  "Simple Layout"

# Each Screen line specifies a Screen section name, and optionally
# the relative position of other screens.  The four names after
# primary screen name are the screens to the top, bottom, left and right
# of the primary screen.  In this example, screen 2 is located to the
# right of screen 1.

  Screen "Screen 1"

# Each InputDevice line specifies an InputDevice section name and
# optionally some options to specify the way the device is to
 be
# used.  Those options include "CorePointer", "CoreKeyboard" and
```

```
# "SendCoreEvents".

  InputDevice "Mouse1" "CorePointer"
  InputDevice "Keyboard1" "CoreKeyboard"

EndSection

Found in path(s):
* /pkgtools-tar-gz/etc/X11/XF86Config-fbdev
```

1.121 net-tools 2.10

1.121.1 Available under license :

```
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```

1.122 python3-bcrypt 3.2.0

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

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1.125 apache-http-server 2.4.39

1.125.1 Available under license :

<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
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<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
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X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
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/>
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Apache > HTTP Server > Documentation > Version 2.4 <h1>The Apache License, Version 2.0</h1>

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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
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    d.write(' <\/div>');
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    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>');
  }
})(window, document);
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href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0.
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}
//--><!]]></script>
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*/
```

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```
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```

For the server\util_md5.c component:

```
/*********************************************************************
* NCSA HTTPd Server
```

```
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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For the test\zb.c component:

```
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     ===============

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   Written by Adam Twiss (adam@zeus.co.uk).  March 1996

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/
```

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1.128 diffutils 3.7

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1.131 python3-pika 1.2.0

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1.132 python3-attrs 20.3.0

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1.134 libpcap 1.10.0

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1.135 curl 7.79.1

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1.136 coreutils 8.32

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1.137 dhcpcd 9.4.0

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1.138 python3-appdirs 1.4.4

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1.139 python3-hyperlink 21.0.0

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1.140 python3-cloghandler 0.9.1

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1.142 numactl 2.0.14

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1.145 libnettle6 3.7.3

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1.146 adduser 3.118

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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
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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
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Since May 20 2000, it is maintained by Roland Bauerschmidt
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Since March 24 2004, it is maintained by Roland Bauerschmidt
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1.147 cpio 2.13

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1.149 shadow 4.8.1

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1.151 cronie 1.5.5

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* @(#)bitstring.h 8.1 (Berkeley) 7/19/93
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1.152 binutils 2.36.1

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

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

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

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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:

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

must be
distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

engineering for debugging such modifications.

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

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

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

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

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

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

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

normally 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
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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

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

<one line to give the library's name and a brief idea of what it does.>
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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Preamble

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your libraries, too.

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if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

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

Our method of protecting your rights has two steps: (1) copyright
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permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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1. You may copy and distribute verbatim copies of the Library's

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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:

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License 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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This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

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

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

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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
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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.

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1.155 python3-grpcio-tools 1.37.0

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/protoc_test.py
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/BUILD.bazel
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/command.py
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/any_test.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_test_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/bytestream.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/status_test.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/type_info.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unknown_field_set.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/descriptor.proto
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/datapiece.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/generated_enum_util.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/reflection_ops.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/gzip_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_proto3.proto
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/type_resolver_util_test.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_field.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/int128.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/logging.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/common.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/printer_unittest.cc
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1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/message_unittest.inc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/extension_set.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/wire_format.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/descriptor_database.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/extension_set_heavy.cc
*

/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_enum.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/field_mask_util_test.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/field_mask_utility.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/json_escaping.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_map_field.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_generator.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/_proto/google/protobuf/type.proto
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/zero_copy_stream_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/drop_unknown_fields_test.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/_proto/google/protobuf/source_context.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/zero_copy_stream.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/object_location_tracker.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/generated_message_table_driven.cc
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field.cc

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/default_value_test.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/type_info_test_helper.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_extension_lite.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/generated_message_util.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_oneof.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/wire_format_lite.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/dynamic_message.cc
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/js/js_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/metadata.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/stl_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message_lite.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/wire_format_lite.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/importer.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_map_field.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_import_public.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/generated_message_reflection.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_oneof.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_unittest.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/api.proto

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_doc_comment_unittest.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_callback.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_callback.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_callback_handlers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/async_stream.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/zip_output_unittest.sh

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/grpc_library.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/status.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/core_codegen.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/client_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/server_initializer.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/service_type.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/alarm.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/rpc_service_method.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/client_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/generic/generic_stub.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/health_check_service_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/channel_argument_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/security/auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_writer.h
*
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1.37.0/grpc_root/include/grpc++/ext/health_check_service_server_builder_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/proto_buffer_writer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/string_ref.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/completion_queue.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/stub_options.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/interceptor.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/sync_stream.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/channelz_service_plugin.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/rpc_method.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/error_details.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call_op_set.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/channel_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/generic/async_generic_service.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/grpc_library.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/method_handler_impl.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/method_handler_impl.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/serialization_traits.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/auth_metadata_processor.h
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/async_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/method_handler_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/call_hook.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/grpc++.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/server_credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/create_channel_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/create_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/client_context.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/server_load_reporting.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/client_callback.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/channel_arguments.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/test/mock_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/config_protobuf.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/generic/async_generic_service.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/metadata_map.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/time.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/proto_utils.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/service_type.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/serialization_traits.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/server_builder_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/server_callback.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/callback_common.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/rpc_service_method.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/template_util.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/mutex.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_abseil.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/channel_test_peer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_abseil.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server_builder.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/census.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/fork.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/load_reporting.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/mock_stream.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_custom.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/error_details.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/fork.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/channel_argument_option.h
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*/
/// If set, grpc is free to use the HTTP GET verb for sending the request,

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/client_interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/async_unary_call.h
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 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_private_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/string_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/objective_c_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_generator.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/port_platform.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/proto_server_reflection_plugin.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/server_interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/status_code_enum.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator_helpers-inl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/slice_buffer.h
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 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/create_auth_context.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/grpc_library.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/string_ref.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/client_context.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/client_unary_call.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/generator_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/objective_c_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/service_type.h
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 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/log.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/alloc.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/serialization_traits.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/config_protobuf.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_reader.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_generator_helpers.h
*

/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm_windows.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpcpp/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/create_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/slice.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/security/auth_context.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm_gcc_sync.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/stub_options.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/serialization_traits.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm_gcc_atomic.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/status.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/method_handler_impl.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/objective_c_generator_helpers.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server_context.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_generator_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_plugin.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_windows.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.cc
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/complicated.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/admin_services.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/main.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/simplest.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/tls_certificate_provider.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/simple.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/flawed.proto
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/simpler.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/xds_server_builder.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/main.cc

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```
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*
*/
/** TLS server authorization check arguments, wraps
*  grpc_tls_server_authorization_check_arg. It is used for experimental
*  purposes for now and it is subject to change.
*
*  The server authorization check arg contains all the info necessary to
*  schedule/cancel a server authorization check request. The callback function
 *  must be called after finishing the schedule operation. See the description
*  of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
*  more details. **/
```

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/tls_credentials_options.h
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```
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-

1.37.0/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/casts.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/map_util.h
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Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.37.0
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools
    ==========

    Package for gRPC Python tools.

    Supported Python Versions

    Python >= 3.5

    Deprecated Python Versions

    Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

    Installation

    The gRPC Python tools package is available for Linux, Mac OS X, and Windows
    running Python 2.7.

    Installing From PyPI
    ~~~~~~~~~~~~~~~~~~~~

    If you are installing locally...

    ::

      $ pip install grpcio-tools

    Else system wide (on Ubuntu)...

    ::
    ~~~~~~~~~~~~~~~~~~~~

```
$ sudo pip install grpcio-tools
```

If you're on Windows make sure that you installed the :code:`pip.exe` component
when you installed Python (if not go back and install it!) then invoke:

::

```
$ pip.exe install grpcio-tools
```

Windows users may need to invoke :code:`pip.exe` from a command line ran as
administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of :code:`pip`
to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest
version!

You might also need to install Cython to handle installation via the source
distribution if gRPC Python's system coverage with wheels does not happen to
include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires
that you have the Python headers (usually a
package named :code:`python-dev`) and Cython installed. It further requires a
GCC-like compiler to go smoothly; you can probably get it to work without
GCC-like stuff, but you may end up having a bad time.

::

```
$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work
out for you in MSYS2 (follow the Linux instructions), but it isn't officially
supported at
the moment.

Troubleshooting
~~~~~~~~~~~~~~~~~~~~~~

~~~~~~~~~~~~~~~~

Help, I ...

* **... see a** :code:`pkg_resources.VersionConflict` **when I try to install grpc**

  This is likely because :code:`pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

  :code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`

  For example, if you get an error like the following:

  ::

    Traceback (most recent call last):
    File "<string>", line 17, in <module>
     ...
    File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
      raise VersionConflict(dist, req)
    pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))

  You can fix it by doing:

  ::

    sudo pip install --ignore-installed six

* **... see compiler errors on some platforms when either installing from source or from the source distribution**

  If you see

  ::

    /tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
    #include "Python.h"
                    ^
    compilation terminated.

  You can fix it by installing `python-dev` package. i.e

  ::

    sudo apt-get install python-dev
~~~~~~~~~~~~~~~~

If you see something similar to:

::

third_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro 'SIGNED_INT_MAX'
static const Type kPosMax = SIGNED_INT_MAX(Type); \\

^

And your toolchain is GCC (at the time of this writing, up through at least GCC 6.0), this is probably a bug where GCC chokes on constant expressions when the :code:`-fwrapv` flag is specified. You should consider setting your environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage

Given protobuf include directories :code:`$INCLUDE`, an output directory :code:`$OUTPUT`, and proto files :code:`$PROTO_FILES`, invoke as:

::

$ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT $PROTO_FILES

To use as a build step in distutils-based projects, you may use the provided command class in your :code:`setup.py`:

::

setuptools.setup(
  # ...
  cmdclass={
    'build_proto_modules': grpc.tools.command.BuildPackageProtos,
  }
  # ...
)

Invocation of the command will walk the project tree and transpile every :code:`.proto` file into a :code:`_pb2.py` file in the same directory.

Note that this particular approach requires :code:`grpcio-tools` to be installed on the machine before the setup script is invoked (i.e. no combination of :code:`setup_requires` or :code:`install_requires` will provide access to :code:`grpc.tools.command.BuildPackageProtos` if it isn't already installed). One way to work around this can be found in our :code:`grpcio-health-checking`

`package <https://pypi.python.org/pypi/grpcio-health-checking>`_:

::

  class BuildPackageProtos(setuptools.Command):
    """Command to generate project *_pb2.py modules from proto files."""
    # ...
    def run(self):
      from grpc.tools import
command
      command.build_package_protos(self.distribution.package_dir[''])

Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the
command on-setup as desired.

For more information on command classes, consult :code:`distutils` and
:code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
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Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/PKG-INFO
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpcio_tools.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

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* limitations under the License.
*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/grpc_types.h
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*
*/

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/message_allocator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/validate_service_config.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/cronet_credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/sync.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/config_protobuf.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/opencensus.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_context.h

1.156 libgpg-error 1.41

1.156.1 Available under license :

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

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

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

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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.)

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

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

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

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1.157 less 563

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Version 3, 29 June 2007

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

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

1. Source Code.

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

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

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"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

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

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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1.160 python3-pycrypto 2.6.1

1.160.1 Available under license :

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):
~~~~~~

Previously, the copyright and/or licensing status of the Python
Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The
original intention of Andrew M. Kuchling and other contributors has
been to dedicate PyCrypto to the public domain, but that intention was
not necessarily made clear in the original disclaimer (see
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Additionally, some files within PyCrypto had specified their own
licenses that differed from the PyCrypto license itself. For example,
the original RIPEMD.c module simply had a copyright statement and
warranty disclaimer, without clearly specifying any license terms.
(An updated version on the author's website came with a license that
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2. Replacing some modules with clearly-licensed code from other
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3. Replacing some modules with code written from scratch (e.g. the
   RIPEMD and Blowfish modules were re-implemented from their
   respective algorithm specifications without reference to the old
   implementations).

4. Removing some modules altogether without replacing them.

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~~~~~~

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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code to PyCrypto must be able to certify the following (taken from the Linux
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=== EOF ===

1.161 modutils-initscripts 1.0

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1.162 lz4 1.9.3

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1.164 sed 4.8

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1.167 hwloc 1.11.13

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1.168 python3-meld3 2.0.1

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Contributors

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- Tres Seaver, 2006-02-09

- Jorge Puente Sarrn, 2012-11-27
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1.169 gawk 5.1.0

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

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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.

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available free
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1.171 python3-pexpect 4.8.0

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1.173 eudev 3.2.10

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1.174 rrdtool 1.7.2

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1.176 patch 2.7.6

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1.177 python3-pyparsing 2.4.7

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1.178 python3-smmap 4.0.0

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1.179 gperftools 2.9.1

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1.180 psmisc 23.4

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

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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
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The hypothetical commands `show w' and `show c' should show the appropriate
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1.183 lua 5.3.6

1.183.1 Available under license :

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

/opt/cola/permits/1447738163_1765915131.3446646/0/lua-5-3-6-tar-gz/lua-5.3.6/doc/manual.html<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
/opt/cola/permits/1447738163_1765915131.3446646/0/lua-5-3-6-tar-gz/lua-5.3.6/doc/readme.html<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
/opt/cola/permits/1447738163_1765915131.3446646/0/lua-5-3-6-tar-gz/lua-5.3.6/src/lua.h/*

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

Found in path(s):
* /lua-5-3-6-tar-gz/lua-5.3.6/doc/contents.html

1.184 python3-certifi 2020.12.5

1.184.1 Available under license :

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

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

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

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***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $

$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.185 xinetd 2.3.15.4

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1.186 python3-gitdb 4.0.5

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1.187 python3-zopeinterface 5.3.0

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1.188 parted 3.4

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1.190 bash-completion 2.11

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

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

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

     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param name="text" select="$rest"/>
     </xsl:call-template>
   </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
   <xsl:text>
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   </xsl:text>
```

```
 </xsl:variable>

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

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.196 python3-pysocks 1.7.1

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1.197 xmlsec 1.2.31

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1.198 python3-cffi 1.14.5

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1.206 glib-networking 2.66.0

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1.207 python3-django 2.2.27

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as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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==========
Advice for new contributors
==========

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

.. admonition:: Basic tools and workflow

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

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

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

* **Triage tickets**

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

* **Look for tickets that are accepted and review patches to build familiarity

 with the codebase and the process**

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

* **Keep old patches up to date**

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

* **Write some documentation**

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

.. note::

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

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

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Guidelines
==========

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

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

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

* **Analyze tickets' context and history**

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

* **Start small**

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

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

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

* **Be bold! Leave feedback!**

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

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

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

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

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

* **Be rigorous**

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

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

.. _new-contributors-faq:

FAQ
===

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

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

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

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

1.208 efibootmgr 17

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1.211 pciutils 3.7.0

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/php_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/health_check_service_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/node_generator_helpers.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/map_util.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/field_mask_util.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/test_util_lite.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/struct.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/package_info.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/text_format.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/googletest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/any.proto
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/arena.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/lite_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/statusor_test.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/message_unittest.inc
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/any_test.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/duration.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/importer.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/coded_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_empty.proto
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/io_win32.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/package_info.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/json_format.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/strutil.cc
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/descriptor.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_message.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/extension_set_heavy.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_unittest.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/arenastring_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/wire_format_lite.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_primitive_field.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_reflection_class.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/_proto/google/protobuf/source_context.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/parse_context.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/wire_format_unittest.cc
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_primitive_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/generated_message_reflection.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/time_util_test.cc
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1.37.0/third_party/protobuf/src/google/protobuf/drop_unknown_fields_test.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-

1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_unittest.cc
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1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_enum_field.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_repeated_message_field.h
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/scc.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/int128.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/_proto/google/protobuf/descriptor.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/type_info.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/python/python_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/time_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/substitute.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_field_lite.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/parse_context.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/generated_message_reflection.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/unittest_embed_optimize_for.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/generated_enum_reflection.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/metadata_lite.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/code_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/strutil.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/googletest.h
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/once.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/package_info.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/file.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/repeated_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/text_format.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/message.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_mset.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/mock_error_listener.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_enum_field.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/protostream_objectsource.cc
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/implicit_weak_message.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/unittest_no_field_presence.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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1.37.0/third_party/protobuf/src/google/protobuf/unittest_lazy_dependencies_enum.proto
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1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_context.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/json_stream_parser_test.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_field_base.cc
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/statusor.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_file.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/repeated_field_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/json_util.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/json_objectwriter.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/metadata.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_field.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/importer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/default_value_objectwriter_test.cc
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/reflection_internal.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/arena_test_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/extension_set.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/field_mask.proto
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1.37.0/third_party/protobuf/src/google/protobuf/stubs/common_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_names.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/subprocess.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/test_messages_proto2.proto
*
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_test_util_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_type_handler.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_helpers.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/delimited_message_util_test.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/mutex.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_callback.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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*
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/sync_stream.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/protoc_lib_deps.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/BUILD
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/__init__.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_version.py

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/protoc.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/setup.py
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/_protoc_compiler.pyx
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/protoc_test.py
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*
*/
/// If set, grpc is free to use the HTTP GET verb for sending the request,
```

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_context.h
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*/
```

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/census.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server_builder.h
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*
*/
/** TLS server authorization check arguments, wraps
* grpc_tls_server_authorization_check_arg. It is used for experimental
* purposes for now and it is subject to change.
*
* The server authorization check arg contains all the info necessary to
* schedule/cancel a server authorization check request. The callback function
 * must be called after finishing the schedule operation. See the description
* of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
* more details. **/

Found in path(s):
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Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.37.0
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
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License: Apache License 2.0
Description: gRPC Python Tools
      ================

Package for gRPC Python tools.

Supported Python Versions

Python >= 3.5

Deprecated Python Versions

Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

Installation

The gRPC Python tools package is available for Linux, Mac OS X, and Windows running Python 2.7.

Installing From PyPI
~~~~~~~~~~~~~~~~~~~~

If you are installing locally...

::

  $ pip install grpcio-tools

Else system wide (on Ubuntu)...

::

  $ sudo pip install grpcio-tools

If you're on Windows make sure that you installed the :code:`pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

  $ pip.exe install grpcio-tools

Windows users may need to invoke :code:`pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of :code:`pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to
~~~~~~~~~~~~~~~~~~~~

include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires
that you have the Python headers (usually a
package named :code:`python-dev`) and Cython installed. It further requires a
GCC-like compiler to go smoothly; you can probably get it to work without
GCC-like stuff, but you may end up having a bad time.

::

```
$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work
out for you in MSYS2 (follow the Linux instructions), but it isn't officially
supported at
the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

* **... see a** :code:`pkg_resources.VersionConflict` **when I try to install
  grpc**

  This is likely because :code:`pip` doesn't own the offending dependency,
  which in turn is likely because your operating system's package manager owns
  it. You'll need to force the installation of the dependency:

  :code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`

  For example, if you get an error like the following:

  ::

```
Traceback (most recent call last):
```

File "<string>", line 17, in <module>
...
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
raise VersionConflict(dist, req)
pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))

You can fix it by doing:

::

sudo pip install --ignore-installed six

* **... see compiler errors on some platforms when either installing from source or from the source distribution**

If you see

::

/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
#include "Python.h"
^
compilation terminated.

You can fix it by installing `python-dev` package. i.e

::

sudo apt-get install python-dev

If you see something similar to:

::

third_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro 'SIGNED_INT_MAX'
static const Type kPosMax = SIGNED_INT_MAX(Type); \\

^

And your toolchain is GCC (at the time of this writing, up through at least
GCC 6.0), this is probably a bug where GCC chokes on constant expressions
when the :code:`-fwrapv` flag is specified. You should consider setting your
environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage

Given protobuf include directories :code:`$INCLUDE`, an output directory
:code:`$OUTPUT`, and proto files :code:`$PROTO_FILES`, invoke as:

::

```
  $ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT
$PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided
command class in your :code:`setup.py`:

::

```
  setuptools.setup(
    # ...
    cmdclass={
      'build_proto_modules': grpc.tools.command.BuildPackageProtos,
     }
    # ...
  )
```

Invocation of the command will walk the project tree and transpile every
:code:`.proto` file into a :code:`_pb2.py` file in the same directory.

Note that this particular approach requires :code:`grpcio-tools` to be
installed on the machine before the setup script is invoked (i.e. no
combination of :code:`setup_requires` or :code:`install_requires` will provide
access to :code:`grpc.tools.command.BuildPackageProtos` if it isn't already
installed). One way to work around this can be found in our
:code:`grpcio-health-checking`
`package <https://pypi.python.org/pypi/grpcio-health-checking>`_:

::

```
  class BuildPackageProtos(setuptools.Command):
    """Command to generate project *_pb2.py modules from proto files."""
    # ...
    def run(self):
      from grpc.tools import
command
      command.build_package_protos(self.distribution.package_dir[''])
```

Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the
command on-setup as desired.

For more information on command classes, consult :code:`distutils` and
:code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: License :: OSI Approved :: Apache Software License

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/PKG-INFO
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpcio_tools.egg-info/PKG-INFO
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/stubs/platform_macros.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc
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Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/zip_output_unittest.sh
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/gzip_stream_unittest.sh
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Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.cc
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.h
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Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/main.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/tls_certificate_provider.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/complicated.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/flawed.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/admin_services.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/main.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/simpler.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/xds_server_builder.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/simple.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/simplest.proto
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */
```

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/grpc_types.h
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*
*/
```

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/cronet_credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/config_protobuf.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/validate_service_config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/message_allocator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/opencensus.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/sync.h
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*/

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/core_codegen.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/server_callback.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/error_details.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/completion_queue.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/proto_buffer_reader.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server_builder.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/status_code_enum.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/server_load_reporting.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/server_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpc++/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/rpc_method.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/slice.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/sync_stream.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/service_type.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/channel_argument_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/status_code_enum.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/client_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call_op_set_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/test/mock_stream.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/interceptor_common.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpc++/ext/health_check_service_server_builder_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/method_handler_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/async_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/generic/async_generic_service.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/server_builder_plugin.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/completion_queue.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/config_protobuf.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/method_handler_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/grpc_library.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/async_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/alarm.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/server_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/metadata_map.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/client_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/server_builder_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/service_type.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/serialization_traits.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/stub_options.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/generic/async_generic_service.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/client_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/stub_options.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/channelz_service_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/call_hook.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/channel_arguments.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/method_handler_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/intercepted_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/status.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/client_callback.h
*
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No license file was found, but licenses were detected in source scan.

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/stub_options.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/server_builder_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/server_credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator.h

*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/security/auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/byte_buffer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/slice_buffer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/generator_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_reader.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/time.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpcpp/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/port_platform.h

1.213 netcat-openbsd 1.195

1.213.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Source: http://www.openbsd.org/cgi-bin/cvsweb/src/usr.bin/nc/

Files: netcat.c
Copyright: 2001 Eric Jackson <ericj@monkey.org>
License: BSD-3-Clause

Files: nc.1
Copyright: 1996 David Sacerdote
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Files: atomicio.*
Copyright: 2006 Damien Miller
2005 Anil Madhavapeddy
1995,1999 Theo de Raadt
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Files: socks.c
Copyright: 1999 Niklas Hallqvist
2004, 2005 Damien Miller
License: BSD-2-Clause

Files: Makefile
Copyright: The OpenBSD project
License: BSD-3-Clause

Files: debian/*
Copyright: 2008, 2009, 2010 Decklin Foster <decklin@red-bean.com>
2008, 2009, 2010 Soren Hansen <soren@ubuntu.com>
2012 Aron Xu <aron@debian.org>
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1.214 pythonurllib 1.26.5

1.214.1 Available under license :

Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

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

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

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

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

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

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

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

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

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>

* Support for separate connect and request timeouts

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

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

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

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

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

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

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

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

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

* John Vandenberg <jayvdb@gmail.com>

* Python 2.6 fixes; pyflakes and pep8 compliance

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

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

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

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

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

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

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

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

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

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

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

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

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>

* Add counter for status_forcelist retries.

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header
regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
 * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
 * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
 * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
 * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
 * Test improvements

* Chris Olufson <tycarac@gmail.com>
 * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
 * Support for logging session keys
 via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
 * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]
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1.215 python3-click 7.1.2

1.215.1 Available under license :

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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
  readme = f.read()

with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
  version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)

setup(
  name="click",
  version=version,
  url="https://palletsprojects.com/p/click/",
  project_urls={
     "Documentation": "https://click.palletsprojects.com/",
     "Code": "https://github.com/pallets/click",
     "Issue tracker": "https://github.com/pallets/click/issues",
  },
  license="BSD-3-Clause",
  maintainer="Pallets",
  maintainer_email="contact@palletsprojects.com",
  description="Composable command line interface toolkit",
  long_description=readme,
  packages=find_packages("src"),
  package_dir={"": "src"},
  include_package_data=True,
  python_requires=">=2.7, !=3.0.*,
!=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
  classifiers=[
     "Development Status :: 5 - Production/Stable",
```

```
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
    ],
)
```

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* /click-7-1-2-1-tar-gz/click-7.1.2/setup.py
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* /click-7-1-2-1-tar-gz/click-7.1.2/src/click/parser.py
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binary only, patch it back to the system, and then use a wrapper

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.. _contrib:

==========
click-contrib
==========

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please
note that the quality and stability of those packages may be different
than what you expect from Click itself. While published under a common
organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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Including attribution to #612

Found in path(s):
* /click-7-1-2-1-tar-gz/click-7.1.2/tests/test_formatting.py

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Metadata-Version: 1.2
Name: click
Version: 7.1.2
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://click.palletsprojects.com/
Project-URL: Code, https://github.com/pallets/click
Project-URL: Issue tracker, https://github.com/pallets/click/issues
Description: \$ click_
==========

Click is a Python package for creating beautiful command line interfaces
in a composable way with as little code as necessary. It's the "Command
Line Interface Creation Kit". It's highly configurable but comes with
sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun
while also preventing any frustration caused by the inability to
implement
an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

Install and update using `pip`_:

.. code-block:: text

$ pip install -U click

.. _pip: https://pip.pypa.io/en/stable/quickstart/

A Simple Example

.. code-block:: python

    import click

    @click.command()
    @click.option("--count", default=1, help="Number of greetings.")
    @click.option("--name", prompt="Your name", help="The person to greet.")
    def hello(count, name):
        """Simple program that greets NAME for a total of COUNT times."""
        for _ in range(count):
            click.echo(f"Hello,
{name}!")

    if __name__ == '__main__':
        hello()

.. code-block:: text

    $ python hello.py --count=3
    Your name: Click
    Hello, Click!
    Hello, Click!
    Hello, Click!

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The Pallets organization develops and supports Click and other popular
packages. In order to grow the community of contributors and users, and
allow the maintainers to devote more time to the projects, `please
donate today`_.

.. _please donate today: https://palletsprojects.com/donate

Links

- Website: https://palletsprojects.com/p/click/
- Documentation: https://click.palletsprojects.com/
- Releases: https://pypi.org/project/click/
- Code: https://github.com/pallets/click
- Issue tracker: https://github.com/pallets/click/issues
- Test status: https://dev.azure.com/pallets/click/_build
- Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*

Found in path(s):
* /click-7-1-2-1-tar-gz/click-7.1.2/PKG-INFO
* /click-7-1-2-1-tar-gz/click-7.1.2/src/click.egg-info/PKG-INFO

1.216 libatomic-ops 7.6.10

1.216.1 Available under license :

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1.217 python3-pycparser 2.20

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pycparser -- A C parser in Python

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1.218 mtools 4.0.26

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the work with the complete corresponding
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e) Verify that the user has already received a copy of these

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

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

That's all there is to it!

1.223 ethwireck 1.2

1.223.1 Available under license :

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```
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```

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```
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1.224 e2fsprogs 1.46.1

1.224.1 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:

```
http://sourceforge.net/projects/e2fsprogs
```

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

all:: image

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

```
 @mkdir -p pic

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
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This is the Debian GNU/Linux prepackaged version of the 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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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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Theodore Ts'o
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.229 rpm 4.16.1.3

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1.234 icu 68.2

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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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1.235 ncurses 6.2

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

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

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Upstream source https://invisible-island.net/ncurses/ncurses.html
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1.236 gettext 0.21

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

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

Otherwise, if the work is a derivative of the Library, you may distribute
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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.
^L
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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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.

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1.237 python3-protobuf 3.14.0

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Metadata-Version: 1.2
Name: protobuf
Version: 3.14.0
Summary: Protocol Buffers
Home-page: https://developers.google.com/protocol-buffers/
Maintainer: protobuf@googlegroups.com
Maintainer-email: protobuf@googlegroups.com
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Download-URL: https://github.com/protocolbuffers/protobuf/releases
Description: Protocol Buffers are Google's data interchange format
Platform: UNKNOWN
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
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Classifier: Programming Language :: Python :: 3.6
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* /protobuf-3-14-0-1-tar-gz/protobuf-3.14.0/google/protobuf/reflection.py
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* /protobuf-3-14-0-1-tar-gz/protobuf-3.14.0/google/protobuf/pyext/descriptor_pool.h

1.238 watch-dog 5.16

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1.239 pam-ldap 184

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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////

[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by
including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple`
by including `<boost/mp11/mpl_tuple.hpp>`. This may be required
because some libraries, such as Boost.Fusion, contain their own MPL
support for `std::tuple`, which conflicts with Mp11's one.
<!DOCTYPE html>
<html>
 <head></head>
 <body>
  <h3>
   Copyright Test
  </h3>

   1963, 1964, 1965 Jane Doe

   2018 Joe Blow, John Coe

   1977, 1985 Someone else

 </body>
</html>
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<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
  <copyright>
   <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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1.241 iproute 5.11.0

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1.242 libsoup 2.72.0

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interpreter. */

extern void
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    void (*supply_uthread) (struct regcache *,
          int, CORE_ADDR));


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programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU

operating system, as well as its variant, the GNU/Linux operating system.

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

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

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

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

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

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

and installation of the library.

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

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

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

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

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

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

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

@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

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

@item
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.

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

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

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

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

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

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

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

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

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

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

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

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

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

@item
Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

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

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

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

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

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

@item
Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

@item
You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

@item
You are not required to accept this License, since you have not
signed it. However,
nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
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@item
Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

@item
If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions
are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims
 or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.
  In such case, this License incorporates the limitation as if
written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
``any later version'', you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software

which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

@center NO WARRANTY

@item
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY ``AS IS'' WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED
TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

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

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively,

under the terms of the
ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should
have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample

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

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

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License

@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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

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

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

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@end display

@heading Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The
 licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom
to share and change all versions of a program---to make sure it remains
free software for all its users. We, the Free Software Foundation,
use the GNU General Public License for most of our software; it
applies also to any other work released this way by its authors. You
can apply it to your programs, too.

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

To protect your rights, we need to prevent others from denying you these rights
or asking you to surrender the rights. Therefore, you
have certain responsibilities if you distribute copies of the
software, or if you modify it: responsibilities to respect the freedom
of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too,
receive or can get the source code. And you must show them these
terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous
versions.

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

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

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

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

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

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

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

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

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

@item Source Code.

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

of a work.

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

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

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

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

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

@item Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively
for you, or provide you with
facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to
forbid
circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

@item

Conveying Modified Source Versions.

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

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

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

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

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

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

@item Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of

sections 4 and 5, provided that you also convey
the machine-readable
Corresponding Source under the terms of this License, in one of these
ways:

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

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

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

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

@item

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

@end enumerate

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

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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@c man end
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference

between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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The "Library", below, refers to any such software library or work which has been distributed
under these terms. A "work based on the
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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
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therefore falls outside the scope of this License.

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

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

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

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

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

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copy of this License. If the work
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

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

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1.247 sg3-utils 1.45

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1.248 wget 1.21.1

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1.249 sharutils 4.15.2

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1.252 python3-pyopenssl 20.0.1

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1.253 pigz 2.6

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1.254 sdparm 1.11

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diff -Naur archiver-work.orig/temp/run.do_patch.20509 archiver-work.patched/temp/run.do_patch.20509
--- archiver-work.orig/temp/run.do_patch.20509 1970-01-01 00:00:00.000000000 +0000
+++ archiver-work.patched/temp/run.do_patch.20509 2019-10-10 16:44:40.842809139 +0000
@@ -0,0 +1,73 @@
+def do_patch(d):
+    bb.build.exec_func('patch_do_patch', d)
+
+do_patch(d)
+
+def patch_do_patch(d):
+
    import oe.patch
+
+    patchsetmap = {
+        "patch": oe.patch.PatchTree,
+        "quilt": oe.patch.QuiltTree,
+        "git": oe.patch.GitApplyTree,
+    }
+
+    cls = patchsetmap[d.getVar('PATCHTOOL') or 'quilt']
+
+    resolvermap = {
+        "noop": oe.patch.NOOPResolver,
+        "user": oe.patch.UserResolver,
+    }
+
+    rcls = resolvermap[d.getVar('PATCHRESOLVE') or 'user']
+
+    classes = {}
+
+    s = d.getVar('S')
+
```

```
+    os.putenv('PATH', d.getVar('PATH'))
+
+    # We must use one TMPDIR per process so that the "patch" processes
+    # don't generate the same temp file name.
+
+    import tempfile
+    process_tmpdir = tempfile.mkdtemp()
+    os.environ['TMPDIR'] = process_tmpdir
+
+    for patch in src_patches(d):
+        _, _, local, _, _, parm = bb.fetch.decodeurl(patch)
+
+        if "patchdir" in parm:
+            patchdir = parm["patchdir"]
+            if not os.path.isabs(patchdir):
+                patchdir = os.path.join(s, patchdir)
+
   else:
+            patchdir = s
+
+        if not patchdir in classes:
+            patchset = cls(patchdir, d)
+            resolver = rcls(patchset, oe_terminal)
+            classes[patchdir] = (patchset, resolver)
+            patchset.Clean()
+        else:
+            patchset, resolver = classes[patchdir]
+
+        bb.note("Applying patch '%s' (%s)" % (parm['patchname'], oe.path.format_display(local, d)))
+        try:
+            patchset.Import({"file":local, "strippath": parm['striplevel']}, True)
+        except Exception as exc:
+            bb.utils.remove(process_tmpdir, True)
+            bb.fatal(str(exc))
+        try:
+            resolver.Resolve()
+        except bb.BBHandledException as e:
+            bb.utils.remove(process_tmpdir, True)
+            bb.fatal(str(e))
+
+    bb.utils.remove(process_tmpdir, True)
+    del os.environ['TMPDIR']
+
+def src_patches(d, all=False, expand=True):
+    import oe.patch
+    return oe.patch.src_patches(d, all, expand)
+
diff
```

```
 -Naur archiver-work.orig/temp/run.patch_do_patch.20509 archiver-work.patched/temp/run.patch_do_patch.20509
--- archiver-work.orig/temp/run.patch_do_patch.20509 1970-01-01 00:00:00.000000000 +0000
+++ archiver-work.patched/temp/run.patch_do_patch.20509 2019-10-10 16:44:40.843809151 +0000
@@ -0,0 +1,70 @@
+def patch_do_patch(d):
+    import oe.patch
+
+    patchsetmap = {
+        "patch": oe.patch.PatchTree,
+        "quilt": oe.patch.QuiltTree,
+        "git": oe.patch.GitApplyTree,
+    }
+
+    cls = patchsetmap[d.getVar('PATCHTOOL') or 'quilt']
+
+    resolvermap = {
+        "noop": oe.patch.NOOPResolver,
+        "user": oe.patch.UserResolver,
+    }
+
+    rcls = resolvermap[d.getVar('PATCHRESOLVE') or 'user']
+
+    classes = {}
+
+    s = d.getVar('S')
+
+    os.putenv('PATH', d.getVar('PATH'))
+
+    # We must use one TMPDIR per process so that the "patch" processes
+    # don't generate the same temp file name.
+
+    import tempfile
+    process_tmpdir = tempfile.mkdtemp()
+
   os.environ['TMPDIR'] = process_tmpdir
+
+    for patch in src_patches(d):
+        _, _, local, _, _, parm = bb.fetch.decodeurl(patch)
+
+        if "patchdir" in parm:
+            patchdir = parm["patchdir"]
+            if not os.path.isabs(patchdir):
+                patchdir = os.path.join(s, patchdir)
+        else:
+            patchdir = s
+
+        if not patchdir in classes:
+            patchset = cls(patchdir, d)
```

```
+            resolver = rcls(patchset, oe_terminal)
+            classes[patchdir] = (patchset, resolver)
+            patchset.Clean()
+        else:
+            patchset, resolver = classes[patchdir]
+
+        bb.note("Applying patch '%s' (%s)" % (parm['patchname'], oe.path.format_display(local, d)))
+        try:
+            patchset.Import({"file":local, "strippath": parm['striplevel']}, True)
+        except Exception as exc:
+            bb.utils.remove(process_tmpdir, True)
+            bb.fatal(str(exc))
+        try:
+            resolver.Resolve()
+
       except bb.BBHandledException as e:
+            bb.utils.remove(process_tmpdir, True)
+            bb.fatal(str(e))
+
+    bb.utils.remove(process_tmpdir, True)
+    del os.environ['TMPDIR']
+
+patch_do_patch(d)
+
+def src_patches(d, all=False, expand=True):
+    import oe.patch
+    return oe.patch.src_patches(d, all, expand)
+
```

Found in path(s):
* /initscripts-1-0-r155-tar-bz2/initscripts-1.0-r155-diff.gz.dir/initscripts-1.0-r155-diff

1.261 gnutls 3.7.2

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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.

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

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

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

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

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

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

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

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

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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directing the user to the copy of
this License. Also, you must do one
of these things:

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

@item
Use a suitable shared library mechanism for linking with the Library. A
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and (2) will operate
properly with a modified version of the library, if the user installs
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@page
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1.266 quota 4.06

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1.268 gdbm 1.19

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1.269 at 3.2.1

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This is the Debian GNU/Linux prepackaged version of the deferred
execution scheduler called at.

This package was debianized by its author Thomas Koenig
<ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin
Schulze <joey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>,
and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over
by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

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1.272 free-type 2.10.4

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1.273 beecrypt 4.2.1

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I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-
precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired
and contributed to many of the changes for version 3.0.0. He also provided
the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for
Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:
- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to
test and BeeCrypt on many new
platforms.
- FSF France, for providing me with access to the GCC Compile Farm.

- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information, reported bugs, provided feedback, or works on including BeeCrypt in any other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll rectify the situation as quickly as possible.

1.274 bc 1.07.1

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Version 3, 29 June 2007

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

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DRuntime: Runtime Library for the D Programming Language
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1.287 openssh 9.1p1

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1.288 rp-pppoe 2.4

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1.289 bsd-mailx 12.5

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/*
* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
UCSD
R. Canetti
IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample
Code
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1.291 lvm2 1.02.175

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1.292 autogen 5.17.3

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

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DRuntime: Runtime Library for the D Programming Language
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Version 3, 29 June 2007

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1.295 ntp 4.2.8p17

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Protocol Distribution Version 4 and are acknowledged as authors of this
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5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT
   port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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   Trimble PARSE support
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1.296 fuse 2.9.9

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====

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Although their code does not appear in the current release, the
authors wish to thank David Koblas, David Rowley, and Hutchison
Avenue Software Corporation for their prior contributions.
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1.303 libsdl 2.0.14

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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.

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limitation in the term "modification".)

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

d) If a facility in the modified
Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

e) Verify that the user has already received a copy of these

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For an executable, the required form of the "work that uses the 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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The test programs in this directory tree are for demonstrating and
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October 28, 1997
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Sam Lantinga (slouken@libsdl.org)

1.304 fuse 3.10.3

1.304.1 Available under 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.)

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

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

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

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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

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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

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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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corresponding machine-readable source code, which
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If distribution of object code is made by offering access to copy
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When a "work that uses the Library" uses material from a header file
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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
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object code for the work under the terms of Section 6.
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1.307 ghostscript 9.53.3

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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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2006-Jan-27

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#
All lines in this file are patterns, including the comment lines; this
means that e.g. `FTL.TXT' matches all files that have this string in
the file name (including the path relative to the current directory,
always starting with `./').
#
Don't put empty lines into this file!
#
.gitignore
#
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
#
#
EOF

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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 Program.

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.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

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.

If distribution of executable or 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 counts as
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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the
greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

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

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

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

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
See the
GNU General Public License for more details.

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

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

The hypothetical commands `show w' and `show c' should show the appropriate

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

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

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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Version 2, June 1991

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document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a

program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

Note that it is possible for a library to be covered by the ordinary General
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly
into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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:

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

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

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

d) If a facility in the modified Library refers to a function or a

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

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

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

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

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

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

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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
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modification of the work for the customer's own use and reverse
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things:

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to
Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
September 29, 2017

1.309 libtasn 4.17.0

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1.311 7zip 16.02

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OpenCORE Adaptive Multi Rate (AMR) speech codec library implementation.

This library contains an implementation of the 3GPP TS 26.073 specification for
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3GPP TS 26.173 specification for the Adaptive Multi-Rate - Wideband (AMR-WB)
speech decoder. The implementation is derived from the OpenCORE framework, part
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more than your reasonable cost of physically performing this
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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
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d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
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Corresponding Source. Regardless of what server hosts the
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1.324 pkix ssh 13.5

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```

[Tatu continues]
```
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- 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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 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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SINGULAR version 3-0-0

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SINGULAR version 3-0-0

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The development of SINGULAR is directed and coordinated by Gert-Martin
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Currently, the SINGULAR team has the following members: Olaf Bachmann,
Anne Fru"bis-Kru"ger, Thomas Keilen, Kai Kru"ger, Christoph Lossen,
Victor Levandovskyy, Wilfred Pohl, Mathias Schulze, Eric Westenberger,
and Tim Wichmann.

Past members of the SINGULAR team are: Hubert Grassmann, Wolfgang
Neumann, Jens Schmidt, Ru"diger Stobbe.

Further contributions to SINGULAR
 were made by: Thomas Bayer, Isabelle
Bermejo, Stephan Endrass, Jose Ignacio Farran Martin, Wolfram Decker,
Philippe Gimenez, Christian Gorzel, Agnes Heydtmann, Dietmar Hillebrand,
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Nu"ssler, Moritz Wenk.

We should like to acknowledge the financial support given by the Volkswagen-Stiftung, the Deutsche Forschungsgemeinschaft and the Stiftung fu"r Innovation des Landes Rheinland-Pfalz to the SINGULAR project.

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Next: [[cvs: Overview#Overview|Overview]], Up: [../dir/index.#Top (dir)] |[[cvs:
Index#SEC_Contents|Contents]]||[[cvs: Index#Index|Index]]|

This info manual describes how to use and administer
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[[cvs: Overview#Overview|• Overview]]::   An introduction to CVS
[[cvs: The Repository#The Repository|• Repository]]::   Where all your sources are stored
[[cvs: Starting a project with CVS#Starting a project with CVS|• Starting a new project]]:: Starting a project
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[[cvs: Branching and merging#Branching and merging|• Branching and merging]]:: Diverging/rejoining branches of development
[[cvs: Recursive behavior#Recursive behavior|• Recursive behavior]]:: CVS descends directories
[[cvs: Adding, removing, and renaming files and directories#Adding, removing, and renaming files and directories|• Adding and removing]]:: Adding/removing/renaming files/directories
[[cvs: History browsing#History browsing|• History browsing]]:: Viewing the history of files in various ways

CVS and the Real World.

[[cvs: Handling binary files#Handling binary files|• Binary files]]:: CVS can handle binary files
[[cvs: Multiple developers#Multiple developers|• Multiple developers]]:: How CVS helps a group of developers
[[cvs: Revision management#Revision management|• Revision management]]:: Policy questions for revision management
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[[cvs: Special Files#Special Files|• Special Files]]:: Devices, links and other non-regular files

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[[cvs: Guide to CVS commands#Guide to CVS commands|• CVS commands]]:: CVS commands share some things
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*
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```
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@include version.texi
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@center @sc{Singular} version @value{VERSION}
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@center @uref{http://www.mathematik.uni-kl.de/,,Department of Mathematics} and
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@uref{http://www.xemacs.org}
@end table
@end ifset

@heading Acknowledgements

The development of @sc{Singular} is directed and coordinated by
Gert-Martin Greuel, Gerhard Pfister, and Hans
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Agnes Heydtmann,
Dietmar Hillebrand,
Tobias Hirsch,
Martin Lamm,
Bernd Martin,
Michael Me@ss{}ollen,
Thomas N@"u@ss{}ler,
Moritz Wenk.

We should like to acknowledge the financial support given by
the Volkswagen-Stiftung,
the Deutsche Forschungsgemeinschaft
and the Stiftung f@"ur Innovation des Landes Rheinland-Pfalz
to the @sc{Singular} project.
\input texinfo @c -*-texinfo-*-

@node Top

texte

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  And a second one (?)

File: copying_not_closed.info, Node: Top, Up: (dir)

texte

Tag Table:
Node: Top151

End Tag Table

1.328 chrpath 0.16

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1.330 rtl8723bs-bt git

1.330.1 Available under license :

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```
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*  BlueZ - Bluetooth protocol stack for Linux
*
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*/
```

Found in path(s):
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```
/*
*
*  BlueZ - Bluetooth protocol stack for Linux
*
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*/
```

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* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hciattach.c
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```
/*
*
*  Bluetooth HCI UART driver
*
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 MA  02111-1307  USA
*
*/
```

Found in path(s):
* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hci_ldisc.c
* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hci_h4.c
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```
/*
*
```

```
*  Bluetooth HCI UART driver
*
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* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hci_rtk_h5.c
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/**
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*

*Module Name:
*   hciattach_rtk.c
*
*Description:
*   H4/H5 specific initialization
*
*Revision History:
*     Date         Version       Author              Comment
*   ----------   ---------      ---------------      ----------------------
*   2013-06-06     1.0.0         gordon_yang           Create
*   2013-06-18     1.0.1         lory_xu             add support for multi fw
*   2013-06-21     1.0.2         gordon_yang           add timeout for get version cmd
*   2013-07-01     1.0.3         lory_xu             close file handle
*   2013-07-01     2.0           champion_chen         add IC check
*   2013-12-16     2.1           champion_chen         fix bug in Additional packet number
*   2013-12-25     2.2           champion_chen         open host flow control after send last fw packet
*/

Found
```

in path(s):
* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hciattach_rtk.c

1.331 fbset-modes 0.1.0

1.331.1 Available under license :

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```
/*
*  Linux Frame Buffer Device Configuration
*
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*
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```

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```
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*  Linux Frame Buffer Device Configuration
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```

Found in path(s):
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```
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```

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*  distribution for more details.
*
*  Petr Vandrovec <vandrove@vc.cvut.cz>:
*          -grayscale, -rgba, -nonstd, VGA modes reporting
*
*  Brad Midgley <brad@exodus.pht.com>:
*          -match
*
*/
```

Found in path(s):
* /fbset-2-1-orig-tar-gz/fbset-2.1/fbset.c

1.332 lib32-bin86 0.16.15

1.332.1 Available under license :

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1.337 ragel 6.10

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1.338 chkconfig 1.3.58

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1.339 python3-jsonnet 0.17.0

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// blah blah here could be a license text
// lorem ipsum dolor sit amet

local a = import 'a.jsonnet';
local b = import 'b.jsonnet';
true
MD5
Converted to C++ class by Frank Thilo (thilo@unix-ag.org)
for bzflag (http://www.bzflag.org)

based on:

md5.h and md5.c
reference implementation of RFC 1321

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// blah blah here could be a license text
// lorem ipsum dolor sit amet

local b = import 'b.jsonnet';
local a = import 'a.jsonnet';
true

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1.340 autoconf 2.71

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1.341 kerberos 1.17.2

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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
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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_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

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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
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1.342 lcov 1.15

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1.343 libperlio-gzip-perl 0.20

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PerlIO::gzip version 0.20
==========

A layer for the PerlIO system to transparently gzip/gunzip files.
DON'T trust it with your data.

YOU NEED PERL 5.8.0 or later.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
echo I know that I am using this at my own risk
make install
```

That echo statement is particularly important.

DEPENDENCIES

This module requires perl 5.8.0 or later compiler with PerlIO.
(which is now the default), and the zlib compression library.

BUGS

Threads - Currenly this module isn't threadsafe as it can't clone an open layer.
flush() doesn't really flush, just empty the buffer

TODO

Lots:

Check that concatenating to files works. Add a way of reading multiple
contactenated gzip files.
Test more
Add an open method so that things we don't like (read/write opens) are faulted
early (ie before a file is created on disk) and so
 that we add "b" flag to
the open for the layer below.
Test more
Rewrite flush to really flush, and write a PerlIOGzip_write() rather than
rely on PerlIOBuf_write, which calls flush() to empty the buffer each time.
Test more
Cope with crlf systems. Should this layer turn off crlf on the layer below
and turn it on on itself?
Cope with utf8. Should the utf8 flag be hiked above us?
Test more
Worry about threads.
Writing headers with fancy stuff (filename, comment, extra info, header crc)
What to about the "TEXT" flag in the gzip header
Test more

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```
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*
*/
```

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```
---
abstract: 'Perl extension to provide a PerlIO layer to gzip/gunzip'
author:
 - 'Nicholas Clark <nwc10+perlio-gzip@colon.colondot.net>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.28, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: PerlIO-gzip
no_index:
 directory:
   - t
   - inc
requires: {}
```

version: '0.20'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
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1.344 diffstat 1.64

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Upstream source http://invisible-island.net/diffstat/diffstat.html

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1.345 libxml-parser-perl 2.46

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```
/*************************************************************************
** Expat.xs
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**
*/
```

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* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/Expat/Expat.xs
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```
---
abstract: 'A perl module for parsing XML documents'
author:
 - 'Clark Cooper (coopercc@netheaven.com)'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::More: '0'
 warnings: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: XML-Parser
no_index:
 directory:
   - t
   - inc
requires:
 LWP::UserAgent: '0'
 perl: '5.00405'
resources:
 bugtracker: https://github.com/toddr/XML-Parser/issues
```

```
 repository: http://github.com/toddr/XML-Parser
version: '2.46'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/META.yml
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# LWPExternEnt.pl
#
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#
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# modify it under the same terms as Perl itself.

package XML::Parser;

use URI;
use URI::file;
use LWP::UserAgent;

##
## Note that this external entity handler reads the entire entity into
## memory, so it will choke on huge ones. It would be really nice if
## LWP::UserAgent optionally returned us an IO::Handle.
##

sub lwp_ext_ent_handler {
 my ($xp, $base, $sys) = @_;  # We don't use public id

 my $uri;

 if (defined $base) {
   # Base may have been set by parsefile, which is agnostic about
   # whether its a file or URI.
   my $base_uri = new URI($base);
   unless (defined $base_uri->scheme) {
     $base_uri = URI->new_abs($base_uri, URI::file->cwd);
   }

   $uri = URI->new_abs($sys, $base_uri);
 }
 else {
   $uri = new URI($sys);
   unless (defined $uri->scheme)
 {
     $uri = URI->new_abs($uri, URI::file->cwd);
```

```
  }
}

my $ua = $xp->{_lwpagent};
unless (defined $ua) {
  $ua = $xp->{_lwpagent} = new LWP::UserAgent();
  $ua->env_proxy();
}

my $req = new HTTP::Request('GET', $uri);

my $res = $ua->request($req);
if ($res->is_error) {
  $xp->{ErrorMessage} .= "\n" . $res->status_line . " $uri";
  return undef;
}

$xp->{_BaseStack} ||= [];
push(@{$xp->{_BaseStack}}, $base);

$xp->base($uri);

return $res->content;
}  # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
 my ($xp) = @_;

 $xp->base(pop(@{$xp->{_BaseStack}}));
}  # End lwp_ext_ent_cleanup

1;
```

Found in path(s):
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```
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**
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*/
```

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* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/samples/canonical
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<!ENTITY rights "All rights reserved" >
<!ENTITY book "La Peste: Albert Camus,
© 1947 %pub;. &rights;" >]]>

Found in path(s):
* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/samples/REC-xml-19980210.xml

1.346 cryptodev-linux 1.12

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1.347 usleep 1.0

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1.348 unifdef 2.12

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- end -

1.349 libpsl 0.21.1

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1.350 libjson-perl 4.03000

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NAME
JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS
use JSON; # imports encode_json, decode_json, to_json and from_json.

simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

OO-interface

$json = JSON->new->allow_nonref;

$json_text = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);

$pretty_printed = $json->pretty->encode($perl_scalar); # pretty-printing

VERSION
2.93

DESCRIPTION
This module is a thin wrapper for JSON::XS-compatible modules with
a few additional features. All the backend modules convert a Perl
data structure to a JSON text as of RFC4627 (which we know is
obsolete but we still stick to; see below for an option to support
part of RFC7159) and vice versa. This module uses JSON::XS
by
default, and when JSON::XS is not available, this module falls
back on JSON::PP, which is in the Perl core since 5.14. If
JSON::PP is not available either, this module then falls back on
JSON::backportPP (which is actually JSON::PP in a different .pm
file) bundled in the same distribution as this module. You can
also explicitly specify to use Cpanel::JSON::XS, a fork of
JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between
them, including extra features that other modules don't support,
but as long as you use only common features (most important ones

are described below), migration from backend to backend should be reasonably easy. For details, see each backend module you use.

CHOOSING BACKEND

This module respects an environmental variable called "PERL_JSON_BACKEND" when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set the variable like this ("export" may be "setenv", "set" and the likes, depending on your environment):

```
> export PERL_JSON_BACKEND=JSON::XS
```

If you prefer Cpanel::JSON::XS to JSON::XS, then:

```
> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP
```

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in "BEGIN", and set before actually "use"-ing JSON module, as it decides its backend as soon as it's loaded):

```
BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }
use JSON;
```

USING OPTIONAL FEATURES

There are a few options you can set when you "use" this module:

-support_by_pp

```
    BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

    use JSON -support_by_pp;
```

```
my $json = JSON->new;
    # escape_slash is for JSON::PP only.
    $json->allow_nonref->escape_slash->encode("/");
```

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the

XS object, so that you can use JSON::PP flags (and its slower "decode"/"encode" methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option
and just to use JSON::PP
explicitly when you need JSON::PP features.

-convert_blessed_universally

```
use JSON -convert_blessed_universally;

my $json = JSON->new->allow_nonref->convert_blessed;
my $object = bless {foo => 'bar'}, 'Foo';
$json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable "convert_blessed" and provide a "TO_JSON" method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as Sereal or Storable for example), but if you do want to use this module for that purpose, "-convert_blessed_universally" option may help, which tweaks "encode" method of the backend to install "UNIVERSAL::TO_JSON" method (locally) before encoding, so that all the objects that don't have their own "TO_JSON" method can fall back on the method in the "UNIVERSAL" namespace. Note that you still need to enable "convert_blessed" flag to actually encode objects in a data structure, and "UNIVERSAL::TO_JSON" method installed by this option only converts blessed hash/array references into their unblessed clone (including private keys/values that are not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

-no_export
    When you don't want
 to import functional interfaces from a
    module, you usually supply "()" to its "use" statement.

        use JSON (); # no functional interfaces

    If you don't want to import functional interfaces, but you
    also want to use any of the above options, add "-no_export" to
    the option list.

      # no functional interfaces, while JSON::PP support is enabled.
      use JSON -support_by_pp, -no_export;

FUNCTIONAL INTERFACE
 This section is taken from JSON::XS. "encode_json" and
 "decode_json" are exported by default.

 This module also exports "to_json" and "from_json" for backward
 compatibility. These are slower, and may expect/generate different
 stuff from what "encode_json" and "decode_json" do, depending on
 their options. It's better just to use Object-Oriented interfaces
 than using these two functions.

encode_json
    $json_text = encode_json $perl_scalar

 Converts the given Perl data structure to a UTF-8 encoded, binary
 string (that
 is, the string contains octets only). Croaks on
 error.

 This function call is functionally identical to:

    $json_text = JSON->new->utf8->encode($perl_scalar)

 Except being faster.

decode_json
    $perl_scalar = decode_json $json_text

 The opposite of "encode_json": expects an UTF-8 (binary) string
 and tries to parse that as an UTF-8 encoded JSON text, returning
 the resulting reference. Croaks on error.

 This function call is functionally identical to:

```
    $perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

to_json

```
   $json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

```
   $json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what "to_json" expects/generates (see "ENCODING/CODESET
FLAG NOTES" for details).

```
   $json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
   # => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

from_json

```
   $perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of "to_json": expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

```
    $perl_scalar = JSON->new->decode($json_text)
```

You can pass an optional hash reference to modify its behavior, but that may change what "from_json" expects/generates (see "ENCODING/CODESET FLAG NOTES" for details).

```
    $perl_scalar = from_json($json_text, {utf8 => 1})
    # => JSON->new->utf8(1)->decode($json_text)
```

JSON::is_bool

```
    $is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true"

and "false" in Perl
strings.

See MAPPING, below, for more information on how JSON values are
mapped to Perl.

COMMON OBJECT-ORIENTED INTERFACE
This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding
or decoding style, within the limits of supported formats.

new
    $json = JSON->new

Creates a new JSON::XS-compatible backend object that can be used
to de/encode JSON strings. All boolean flags described below are
by default *disabled*.

The mutators for flags all return the backend object again and
thus calls can be chained:

   my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
   => {"a": [1, 2]}

ascii
    $json = $json->ascii([$enable])

    $enabled = $json->get_ascii

If $enable is true (or missing), then the "encode" method will not
generate characters outside the code range 0..127 (which is
ASCII). Any Unicode characters outside that range will be escaped
using
either a single \uXXXX (BMP characters) or a double
\uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting
encoded JSON text can be treated as a native Unicode string, an
ascii-encoded, latin1-encoded or UTF-8 encoded string, or any
other superset of ASCII.

If $enable is false, then the "encode" method will not escape
Unicode characters unless required by the JSON syntax or other
flags. This results in a faster and more compact format.

See also the section *ENCODING/CODESET FLAG NOTES* later in this
document.

The main use for this flag is to produce JSON texts that can be

transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

```
  JSON->new->ascii(1)->encode([chr 0x10401])
  => ["\ud801\udc01"]
```

latin1

```
    $json = $json->latin1([$enable])

    $enabled = $json->get_latin1
```

If $enable is true (or missing), then the "encode" method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The "decode" method will not be affected in any way by this flag, as "decode" by default expects Unicode, which is a strict superset of latin1.

If $enable is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking
to other JSON encoders/decoders.

```
  JSON->new->latin1->encode (["\x{89}\x{abc}"]
  => ["\x{89}\\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

utf8

```
    $json = $json->utf8([$enable])

    $enabled = $json->get_utf8
```

If $enable is true (or missing), then the "encode" method will encode the JSON result into UTF-8, as required by many protocols, while the "decode" method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any

characters outside the range 0..255, they are thus useful for
bytewise/binary I/O. In future versions, enabling this option
might enable autodetection of the UTF-16 and UTF-32 encoding
families, as described in RFC4627.

If $enable is false, then the "encode" method will return the JSON
string as a (non-encoded) Unicode string, while "decode" expects
thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or
UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section *ENCODING/CODESET FLAG NOTES* later in this
document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON->new->decode (decode "UTF-32LE", $jsontext);
```

pretty
$json = $json->pretty([$enable])

This enables (or disables) all of the "indent", "space_before" and
"space_after" (and in the future possibly more) flags in one call
to generate the most readable (or most compact) form possible.

indent
$json = $json->indent([$enable])

$enabled = $json->get_indent

If $enable is true (or missing), then the "encode" method will use
a multiline format as output, putting every array member or
object/hash key-value pair into its own line, indenting them
properly.

If $enable is false, no newlines or indenting will be produced,
and the resulting JSON text is guaranteed not to contain
any
"newlines".

This setting has no effect when decoding JSON texts.

space_before

```
    $json = $json->space_before([$enable])

    $enabled = $json->get_space_before
```

If $enable is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with "space_after".

Example, space_before enabled, space_after and indent disabled:

```
   {"key" :"value"}
```

space_after

```
    $json = $json->space_after([$enable])

    $enabled = $json->get_space_after
```

If $enable is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
   {"key": "value"}
```

relaxed

```
    $json = $json->relaxed([$enable])

    $enabled = $json->get_relaxed
```

If $enable is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!*. I suggest only to use this option to parse application-specific files written by humans

(configuration files, resource files etc.)

If $enable is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

* list items can have an end-comma

  JSON *separates* array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
   1,
   2, <- this comma not normally allowed
]
{
   "k1": "v1",
   "k2": "v2", <- this comma not normally allowed
}
```

* shell-style '#'-comments

  Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
   1, # this comment not allowed in JSON
     # neither this one...
]
```

canonical

  $json = $json->canonical([$enable])

  $enabled = $json->get_canonical

If $enable is true (or missing), then the "encode" method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable is false,

then the "encode" method will output
key-value pairs in the order Perl stores them (which will likely
change between runs of the same script, and can change even within
the same run from 5.18 onwards).

This option is useful if you want the same data structure to be
encoded as the same JSON text (given the same overall settings).
If it is disabled, the same hash might be encoded differently even
if contains the same data, as key-value pairs have no inherent
ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

allow_nonref
    $json = $json->allow_nonref([$enable])

    $enabled = $json->get_allow_nonref

If $enable is true (or missing), then the "encode" method can
convert a non-reference into its corresponding string, number or
null JSON value, which is an extension to RFC4627. Likewise,
"decode" will accept those JSON values instead of croaking.

If $enable is false, then
the "encode" method will croak if it
isn't passed an arrayref or hashref, as JSON texts must either be
an object or array. Likewise, "decode" will croak if given
something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled
"allow_nonref", resulting in an invalid JSON text:

   JSON->new->allow_nonref->encode ("Hello, World!")
   => "Hello, World!"

allow_unknown
    $json = $json->allow_unknown ([$enable])

    $enabled = $json->get_allow_unknown

If $enable is true (or missing), then "encode" will *not* throw an
exception when it encounters values it cannot represent in JSON
(for example, filehandles) but instead will encode a JSON "null"
value. Note that blessed objects are not included here and are
handled separately by c<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

allow_blessed

$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

See "OBJECT SERIALISATION" for details.

If $enable is true (or missing), then the "encode" method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON "null" value is encoded instead of the object.

If $enable is false (the default), then "encode" will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on "decode".

convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

See "OBJECT SERIALISATION" for details.

If $enable is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with any "to_json" function or method.

If $enable is false (the default), then "encode" will not consider this type of conversion.

This setting has no effect on "decode".

filter_json_object

$json = $json->filter_json_object([$coderef])

When $coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *not* "undef", which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When $coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');
```

filter_json_single_key_object

$json = $json->filter_json_single_key_object($key [=> $coderef])

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named $key.

This $coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "$__dollars_are_rarely_used__$" or "}ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into the corresponding $WIDGET{<id>} object:

```
# return whatever is in $WIDGET{5}:
JSON
   ->new
   ->filter_json_single_key_object (__widget__ => sub {
         $WIDGET{ $_[0] }
      })
   ->decode ('{"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
   my ($self) = @_;

   unless ($self->{id}) {
      $self->{id} = ..get..some..id..;
      $WIDGET{$self->{id}} = $self;
   }

   { __widget__ => $self->{id} }
}
```

max_depth

```
$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "{" or "[" characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

max_size

$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

decode

$perl_scalar = $json->decode($json_text)

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not

delimited by an outer
protocol and you need to know where the JSON text ends.

```
JSON->new->decode_prefix ("[1] the tail")
=> ([1], 3)
```

ADDITIONAL METHODS

The following methods are for this module only.

backend

```
$backend = $json->backend
```

Since 2.92, "backend" method returns an abstract backend module used currently, which should be JSON::Backend::XS (which inherits JSON::XS or Cpanel::JSON::XS), or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use "isa", instead of string comparison.

is_xs

```
$boolean = $json->is_xs
```

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

is_pp

```
$boolean = $json->is_pp
```

Returns true if the backend inherits JSON::PP.

property

```
$settings = $json->property()
```

Returns a reference to a hash that holds all the common flag settings.

```
$json = $json->property('utf8' => 1)
$value
= $json->property('utf8') # 1
```

You can use this to get/set a value of a particular flag.

INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and

resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is
that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

incr_parse

```
$json->incr_parse( [$string] ) # void context

$obj_or_undef = $json->incr_parse( [$string] ) # scalar context

@obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If $string is given, then this string is appended to the already existing JSON fragment stored in the $json object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called
in scalar context, then it will try to
extract exactly *one* JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the

empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
    my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

incr_text

```
    $lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This *only* works when a preceding call to "incr_parse" in *scalar context* successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it *will* fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

incr_skip

```
    $json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after "incr_parse" died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to "incr_reset" is that only text until the parse error occurred is removed.

incr_reset

```
    $json->incr_reset
```

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

MAPPING

Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and vice versa. These mappings are designed to "do the right thing" in most circumstances automatically, preserving round-tripping characteristics (what you put in comes out as something equivalent).

For the more enlightened:
note that in the following descriptions,
lowercase *perl* refers to the Perl interpreter, while uppercase *Perl* refers to the abstract Perl language itself.

JSON -> PERL

object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserver object key ordering itself).

array

A JSON array becomes a reference to an array in Perl.

string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly
than floating point
numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is

possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but
not including the least
significant bit.

true, false
These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

null
A JSON null atom becomes "undef" in Perl.

shell-style comments ("# *text*")
As a nonstandard extension to the JSON syntax that is enabled by the "relaxed" setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

PERL -> JSON
The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

hash references
Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order.
This module can
optionally sort the hash keys (determined by the *canonical* flag), so the same data structure will serialise to the same JSON text (given same settings and version of the same backend), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text

against another for equality.

array references
Perl array references become JSON arrays.

other references
Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers 0 and 1, which get turned into "false" and "true" atoms in JSON. You can also use "JSON::false" and "JSON::true" to improve readability.

```
encode_json [\0,JSON::true]      # yields [false,true]
```

JSON::true, JSON::false, JSON::null
These special values become JSON true and JSON false values, respectively. You can also use "\1" and "\0" directly if you want.

blessed objects
Blessed objects are not directly representable in JSON, but "JSON::XS" allows various ways of handling objects. See "OBJECT SERIALISATION", below, for details.

simple scalars
Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: this module will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

```
# dump as number
encode_json [2]                  # yields [2]
encode_json [-3.0e17]            # yields [-3e+17]
my $value = 5; encode_json [$value]  # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value]             # yields ["5"]

# undef becomes null
encode_json [undef]              # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
```

```
   "$x";       # stringified
   $x .= "";   # another, more awkward way to stringify
   print $x;   # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
   my $x = "3"; # some variable containing a string
   $x += 0;     # numify it, ensuring it will be dumped as a number
   $x *= 1;     # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

OBJECT SERIALISATION

As for Perl objects, this module only supports a pure JSON representation (without the ability to deserialise the object automatically again).

SERIALISATION

What happens when this module encounters a Perl object depends on the "allow_blessed" and "convert_blessed" settings, which are used in this order:

1. "convert_blessed" is enabled and the object has a "TO_JSON" method.

   In this case, the "TO_JSON" method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

   For example, the following "TO_JSON" method will convert all URI objects to JSON strings when serialised. The fact that these values originally were URI objects is lost.

```
   sub URI::TO_JSON {
      my ($uri) = @_;
```

```
   $uri->as_string
  }
```

2. "allow_blessed" is enabled.
   The object will be serialised as a JSON null value.

3. none of the above
   If none of the settings are enabled or the respective methods
   are missing, this module throws an exception.

ENCODING/CODESET FLAG NOTES
This section is taken from JSON::XS.

The interested reader might have seen a number of flags that
signify encodings or codesets - "utf8", "latin1" and "ascii".
There seems to be some confusion on what these do, so here is a
short comparison:

"utf8" controls whether the JSON text created by "encode" (and
expected by "decode") is UTF-8 encoded or not, while "latin1" and
"ascii" only control whether "encode" escapes character values
outside their respective codeset range. Neither of these flags
conflict with each other, although some combinations make less
sense than others.

Care has been taken to make all flags symmetrical with respect to
"encode" and "decode", that
is, texts encoded with any combination
of these flag values will be correctly decoded when the same flags
are used - in general, if you use different flag settings while
encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a
"codeset" is simply an abstract set of character-codepoint pairs,
while an encoding takes those codepoint numbers and *encodes*
them, in our case into octets. Unicode is (among other things) a
codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and
ASCII are both codesets *and* encodings at the same time, which
can be confusing.

"utf8" flag disabled
   When "utf8" is disabled (the default), then "encode"/"decode"
   generate and expect Unicode strings, that is, characters with
   high ordinal Unicode values (> 255) will be encoded as such
   characters, and likewise such characters are decoded as-is, no
   changes to them will be done, except "(re-)interpreting"
them
   as Unicode codepoints or Unicode characters, respectively (to

Perl, these are the same thing in strings unless you do
funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g.
when you want to have UTF-16 encoded JSON texts) or when some
other layer does the encoding for you (for example, when
printing to a terminal using a filehandle that transparently
encodes to UTF-8 you certainly do NOT want to UTF-8 encode
your data first and have Perl encode it another time).

"utf8" flag enabled
If the "utf8"-flag is enabled, "encode"/"decode" will encode
all characters using the corresponding UTF-8 multi-byte
sequence, and will expect your input strings to be encoded as
UTF-8, that is, no "character" of the input string must have
any value > 255, as UTF-8 does not allow that.

The "utf8" flag therefore switches between two modes: disabled
means you will
get a Unicode string in Perl, enabled means you
get an UTF-8 encoded octet/binary string in Perl.

"latin1" or "ascii" flags enabled
With "latin1" (or "ascii") enabled, "encode" will escape
characters with ordinal values > 255 (> 127 with "ascii") and
encode the remaining characters as specified by the "utf8"
flag.

If "utf8" is disabled, then the result is also correctly
encoded in those character sets (as both are proper subsets of
Unicode, meaning that a Unicode string with all character
values < 256 is the same thing as a ISO-8859-1 string, and a
Unicode string with all character values < 128 is the same
thing as an ASCII string in Perl).

If "utf8" is enabled, you still get a correct UTF-8-encoded
string, regardless of these flags, just some more characters
will be escaped using "\uXXXX" then before.

Note that ISO-8859-1-*encoded* strings are not compatible with
UTF-8 encoding, while
ASCII-encoded strings are. That is
because the ISO-8859-1 encoding is NOT a subset of UTF-8
(despite the ISO-8859-1 *codeset* being a subset of Unicode),
while ASCII is.

Surprisingly, "decode" will ignore these flags and so treat
all input values as governed by the "utf8" flag. If it is

disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither "latin1" nor "ascii" are incompatible with the "utf8" flag - they only govern when the JSON output engine escapes a character or not.

The main use for "latin1" is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for "ascii" is to force the output to not contain characters with values > 127, which means you can interpret the resulting
string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for "JSON::true" and "JSON::false" has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

```
if (JSON::true eq 'true') {  # now fails

print "The result is $JSON::true now."; # => The result is 1 now.
```

And now these boolean values don't inherit JSON::Boolean, either. When you need to test a value is a JSON boolean value or not, use "JSON::is_bool" function, instead of testing the value inherits a particular boolean class or not.

BUGS

Please report bugs on backend selection and additional features this module provides to RT or GitHub issues for this module:

https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON
https://github.com/makamaka/JSON/issues

Please report bugs and feature requests on decoding/encoding and

boolean behaviors to the author of the backend module you are using.

SEE ALSO

JSON::XS, Cpanel::JSON::XS, JSON::PP for backends.

JSON::MaybeXS, an alternative that prefers Cpanel::JSON::XS.

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

AUTHOR

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JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc Lehmann.

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under the same terms as Perl itself.

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/README
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

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=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP/Compat5006.pm
No license file was found, but licenses were detected in source scan.

```
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;


printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );


print "-----------------------------------\n";
print "->encode()\n";
print "-----------------------------------\n";

$result = timethese( -$wanttime,
  {
    'JSON::PP' => sub { $pp->encode( $perl ) },
    'JSON::XS' => sub { $xs->encode( $perl ) },
  },
  'none'
);
cmpthese( $result );
```

```
print "-----------------------------------\n";
print "->pretty->canonical->encode()\n";
print "-----------------------------------\n";

$pp->pretty->canonical;
$xs->pretty->canonical;

$result
 = timethese( -$wanttime,
   {
      'JSON::PP' => sub { $pp->encode( $perl ) },
      'JSON::XS' => sub { $xs->encode( $perl ) },
   },
   'none'
);
cmpthese( $result );

print "-----------------------------------\n";


__END__

=pod

=head1 SYNOPSYS

 bench_encode.pl json-file
 # or
 bench_encode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> encoding benchmark.

=head1 AUTHOR

makamaka

=head1 LISENCE

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/eg/bench_encode.pl
```

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

=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.

=head1 SYNOPSIS

use JSON::PP;

exported functions, they croak on error
and expect/generate UTF-8

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

OO-interface

$json = JSON::PP->new->ascii->pretty->allow_nonref;

$pretty_printed_json_text = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);

Note that JSON version 2.0 and above will automatically use
JSON::XS or JSON::PP, so you should be able to just:

use JSON;

=head1 VERSION

  4.05

=head1 DESCRIPTION

JSON::PP is a pure perl JSON decoder/encoder, and (almost) compatible to much
faster L<JSON::XS> written by Marc Lehmann in C. JSON::PP works as
a fallback module when you use L<JSON> module without having
installed JSON::XS.

Because of this fallback feature of JSON.pm,
 JSON::PP tries not to
be more JavaScript-friendly than JSON::XS (i.e. not to escape extra
characters such as U+2028 and U+2029, etc),
in order for you not to lose such JavaScript-friendliness silently
when you use JSON.pm and install JSON::XS for speed or by accident.

If you need JavaScript-friendly RFC7159-compliant pure perl module,
try L<JSON::Tiny>, which is derived from L<Mojolicious> web
framework and is also smaller and faster than JSON::PP.

JSON::PP has been in the Perl core since Perl 5.14, mainly for
CPAN toolchain modules to parse META.json.

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS almost verbatim. C<encode_json>
and C<decode_json> are exported by default.

=head2 encode_json

  $json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string
(that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

  $json_text = JSON::PP->new->utf8->encode($perl_scalar)

Except
 being faster.

=head2 decode_json

  $perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries
to parse that as an UTF-8 encoded JSON text, returning the resulting
reference. Croaks on error.

This function call is functionally identical to:

  $perl_scalar = JSON::PP->new->utf8->decode($json_text)

Except being faster.

=head2 JSON::PP::is_bool

  $is_boolean = JSON::PP::is_bool($scalar)

Returns true if the passed scalar represents either JSON::PP::true or
JSON::PP::false, two constants that act like C<1> and C<0> respectively
and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or decoding style, within the limits of supported formats.

=head2 new

```
  $json
 = JSON::PP->new
```

Creates a new JSON::PP object that can be used to de/encode JSON strings. All boolean flags described below are by default I<disabled> (with the exception of C<allow_nonref>, which defaults to I<enabled> since version C<4.0>).

The mutators for flags all return the JSON::PP object again and thus calls can be chained:

```
 my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]})
 => {"a": [1, 2]}
```

=head2 ascii

```
  $json = $json->ascii([$enable])

  $enabled = $json->get_ascii
```

If C<$enable> is true (or missing), then the C<encode> method will not generate characters outside the code range C<0..127> (which is ASCII). Any Unicode characters outside that range will be escaped using either a single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If C<$enable>
 is false, then the C<encode> method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be

transmitted over a 7-bit channel, as the encoded JSON texts will not
contain any 8 bit characters.

```
 JSON::PP->new->ascii(1)->encode([chr 0x10401])
 => ["\ud801\udc01"]
```

=head2 latin1

```
   $json = $json->latin1([$enable])

   $enabled = $json->get_latin1
```

If C<$enable> is true (or missing), then the C<encode> method will encode
the resulting JSON text as latin1 (or iso-8859-1), escaping any characters
outside the code range C<0..255>. The resulting string can be treated as a
latin1-encoded JSON text or a native Unicode string. The C<decode> method
will not be affected in any way by this flag, as C<decode> by default
expects Unicode, which is a strict superset of latin1.

If
 C<$enable> is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON
text, as most octets will not be escaped, resulting in a smaller encoded
size. The disadvantage is that the resulting JSON text is encoded
in latin1 (and must correctly be treated as such when storing and
transferring), a rare encoding for JSON. It is therefore most useful when
you want to store data structures known to contain binary data efficiently
in files or databases, not when talking to other JSON encoders/decoders.

```
 JSON::PP->new->latin1->encode (["\x{89}\x{abc}"]
 => ["\x{89}\\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

=head2 utf8

```
   $json = $json->utf8([$enable])

   $enabled = $json->get_utf8
```

If C<$enable> is true (or missing), then the C<encode> method will encode
the
 JSON result into UTF-8, as required by many protocols, while the
C<decode> method expects to be handled an UTF-8-encoded string. Please
note that UTF-8-encoded strings do not contain any characters outside the
range C<0..255>, they are thus useful for bytewise/binary I/O. In future

versions, enabling this option might enable autodetection of the UTF-16
and UTF-32 encoding families, as described in RFC4627.

If C<$enable> is false, then the C<encode> method will return the JSON
string as a (non-encoded) Unicode string, while C<decode> expects thus a
Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs
to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
 use Encode;
 $jsontext = encode "UTF-16BE", JSON::PP->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
 use Encode;
 $object = JSON::PP->new->decode (decode "UTF-32LE", $jsontext);
```

=head2
 pretty

```
   $json = $json->pretty([$enable])
```

This enables (or disables) all of the C<indent>, C<space_before> and
C<space_after> (and in the future possibly more) flags in one call to
generate the most readable (or most compact) form possible.

=head2 indent

```
   $json = $json->indent([$enable])

   $enabled = $json->get_indent
```

If C<$enable> is true (or missing), then the C<encode> method will use a multiline
format as output, putting every array member or object/hash key-value pair
into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the
resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

The default indent space length is three.
You can use C<indent_length> to change the length.

=head2 space_before

$json = $json->space_before([$enable])

$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode>
method will add an extra
optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts. You will also
most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

{"key" :"value"}

=head2 space_after

$json = $json->space_after([$enable])

$enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space after the C<:> separating keys from values in JSON objects
and extra whitespace after the C<,> separating key-value pairs and array
members.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

=head2 relaxed

$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If C<$enable> is true (or missing), then C<decode> will accept some
extensions to normal JSON syntax (see below). C<encode> will not be
affected in anyway. I<Be aware that this option makes you accept invalid

JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
 [
    1,
    2, <- this comma not normally allowed
 ]
 {
    "k1": "v1",
    "k2": "v2", <- this comma
 not normally allowed
 }
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
 [
    1, # this comment not allowed in JSON
       # neither this one...
 ]
```

=item * C-style multiple-line '/* */'-comments (JSON::PP only)

Whenever JSON allows whitespace, C-style multiple-line comments are additionally allowed. Everything between C</*> and C<*/> is a comment, after which more white-space and comments are allowed.

```
 [
    1, /* this comment not allowed in JSON */
       /* neither this one... */
```

]

=item * C++-style one-line '//'-comments (JSON::PP only)

Whenever JSON allows whitespace, C++-style one-line comments are additionally
allowed. They are terminated by the first carriage-return or line-feed
character, after which more white-space and comments are allowed.

```
[
   1, // this comment
not allowed in JSON
      // neither this one...
]
```

=item * literal ASCII TAB characters in strings

Literal ASCII TAB characters are now allowed in strings (and treated as
C<\t>).

```
[
   "Hello\tWorld",
   "Hello<TAB>World", # literal <TAB> would not normally be allowed
]
```

=back

=head2 canonical

```
  $json = $json->canonical([$enable])

  $enabled = $json->get_canonical
```

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects
by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value
pairs in the order Perl stores them (which will likely change between runs
of the same script, and can change even within the same run from 5.18
onwards).

This option is useful if you want the same data structure to be encoded as
the same JSON text (given the same overall settings). If it is disabled,
the same hash might be encoded differently even if contains the same
 data,
as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

  $json = $json->allow_nonref([$enable])

  $enabled = $json->get_allow_nonref

Unlike other boolean options, this opotion is enabled by default beginning
with version C<4.0>.

If C<$enable> is true (or missing), then the C<encode> method can convert a
non-reference into its corresponding string, number or null JSON value,
which is an extension to RFC4627. Likewise, C<decode> will accept those JSON
values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't
passed an arrayref or hashref, as JSON texts must either be an object
or array. Likewise, C<decode> will croak if given something that is not a
JSON object or array.

Example, encode a Perl scalar as JSON value without enabled C<allow_nonref>,
resulting in an error:

  JSON::PP->new->allow_nonref(0)->encode
 ("Hello, World!")
  => hash- or arrayref expected...

=head2 allow_unknown

  $json = $json->allow_unknown([$enable])

  $enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then C<encode> will I<not> throw an
exception when it encounters values it cannot represent in JSON (for
example, filehandles) but instead will encode a JSON C<null> value. Note
that blessed objects are not included here and are handled separately by
c<allow_blessed>.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to
leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not
barf when it encounters
 a blessed reference that it cannot convert
otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters a blessed object that it cannot convert
otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<TO_JSON> method
on the object's class. If found, it will be called in scalar context and
the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON>
returns other blessed objects, those will be handled in the same
way. C<TO_JSON> must take care of not causing an endless recursion cycle
(== crash) in this case. The name of C<TO_JSON>
 was chosen because other
methods called by the Perl core (== not by the user of the object) are
usually in upper case letters and to avoid collisions with any C<to_json>
function or method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion.

This setting has no effect on C<decode>.

=head2 allow_tags

$json = $json->allow_tags([$enable])

$enabled = $json->get_allow_tags

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<FREEZE> method on
the object's class. If found, it will be used to serialise the object into
a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise
them via a call to the C<THAW> method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion, and tagged JSON values will
cause a parse error
in C<decode>, as if tags were not part of the grammar.

=head2 boolean_values

$json->boolean_values([$false, $true])

($false, $true) = $json->get_boolean_values

By default, JSON booleans will be decoded as overloaded
C<$JSON::PP::false> and C<$JSON::PP::true> objects.

With this method you can specify your own boolean values for decoding -
on decode, JSON C<false> will be decoded as a copy of C<$false>, and JSON
C<true> will be decoded as C<$true> ("copy" here is the same thing as
assigning a value to another variable, i.e. C<$copy = $false>).

This is useful when you want to pass a decoded data structure directly
to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible
boolean objects (like L<boolean>), but when you C<encode> a data structure
with such boolean objects, you still need to enable C<convert_blessed>
(and add a C<TO_JSON> method if necessary).

Calling this method
without any arguments will reset the booleans
to their default values.

C<get_boolean_values> will return both C<$false> and C<$true> values, or
the empty list when they are set to the default.

=head2 filter_json_object

$json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (or rather a copy of it) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
 my $js = JSON::PP->new->filter_json_object(sub
{ 5 });
 # returns [5]
 $js->decode('[{}]');
 # returns 5
 $js->decode('{"a":1, "b":2}');
```

=head2 filter_json_single_key_object

$json = $json->filter_json_single_key_object($key [=> $coderef])

Works remotely similar to C<filter_json_object>, but is only called for JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via C<filter_json_object>, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even C<undef> but the empty list), the callback from C<filter_json_object> will be called next, as if no single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object> one, decoding speed will not usually suffer as much.
Therefore, single-key
objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks

like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even things like C<__class_md5sum(classname)__>, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >> into the corresponding C<< $WIDGET{<id>} >> object:

```
 # return whatever is in $WIDGET{5}:
 JSON::PP
    ->new
    ->filter_json_single_key_object (__widget__ => sub {
          $WIDGET{ $_[0] }
       })
    ->decode ('{"__widget__": 5')

 # this can be used with a TO_JSON method in some "widget" class
 # for serialisation to
json:
 sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
       $self->{id} = ..get..some..id..;
       $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
 }
```

=head2 shrink

```
  $json = $json->shrink([$enable])

  $enabled = $json->get_shrink
```

If C<$enable> is true (or missing), the string returned by C<encode> will be shrunk (i.e. downgraded if possible).

The actual definition of what shrink does might change in future versions, but it will always try to save space at the expense of time.

If C<$enable> is false, then JSON::PP does nothing.

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.

Nesting level is defined by number of
 hash- or arrayrefs that the encoder
needs to traverse to reach a given point or the number of C<{> or C<[>
characters without their matching closing parenthesis crossed to reach a
given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures
that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which
is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is
being attempted. The default is C<0>, meaning no limit. When C<decode>
is called on a string that is longer then this many bytes, it will not
attempt to decode the string but throw an exception. This setting has no
effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same
 as when
C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON
representation. Croaks on error.

=head2 decode

  $perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it,
returning the resulting simple scalar or reference. Croaks on error.

=head2 decode_prefix

  ($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception
when there is trailing garbage after the first JSON object, it will
silently stop parsing there and return the number of characters consumed
so far.

This is useful if your JSON texts are not delimited by an outer protocol
and you need to know where the JSON text ends.

 JSON::PP->new->decode_prefix ("[1] the tail")
 => ([1], 3)

=head1 FLAGS FOR JSON::PP ONLY

The
 following flags and properties are for JSON::PP only. If you use
any of these, you can't make your application run faster by replacing
JSON::PP with JSON::XS. If you need these and also speed boost,
you might want to try L<Cpanel::JSON::XS>, a fork of JSON::XS by
Reini Urban, which supports some of these (with a different set of
incompatibilities). Most of these historical flags are only kept
for backward compatibility, and should not be used in a new application.

=head2 allow_singlequote

  $json = $json->allow_singlequote([$enable])
  $enabled = $json->get_allow_singlequote

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain strings that begin and end with
single quotation marks. C<encode> will not be affected in any way.
I<Be aware that this option makes you accept invalid JSON texts
as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files etc.)

If

C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

```
  $json->allow_singlequote->decode(qq|{"foo":'bar'}|);
  $json->allow_singlequote->decode(qq|{'foo':"bar"}|);
  $json->allow_singlequote->decode(qq|{'foo':'bar'}|);
```

=head2 allow_barekey

```
  $json = $json->allow_barekey([$enable])
  $enabled = $json->get_allow_barekey
```

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain JSON objects whose names don't
begin and end with quotation marks. C<encode> will not be affected
in any way. I<Be aware that this option makes you accept invalid JSON
texts as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

```
  $json->allow_barekey->decode(qq|{foo:"bar"}|);
```

=head2 allow_bignum

```
  $json = $json->allow_bignum([$enable])
   $enabled = $json->get_allow_bignum
```

If C<$enable> is true (or missing), then C<decode> will convert
big integers Perl cannot handle as integer into L<Math::BigInt>
objects and convert floating numbers into L<Math::BigFloat>
objects. C<encode> will convert C<Math::BigInt> and C<Math::BigFloat>
objects into JSON numbers.

```
 $json->allow_nonref->allow_bignum;
 $bigfloat = $json->decode('2.000000000000000000000000001');
 print $json->encode($bigfloat);
 # => 2.000000000000000000000000001
```

See also L<MAPPING>.

=head2 loose

```
  $json = $json->loose([$enable])
  $enabled = $json->get_loose
```

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain unescaped [\x00-\x1f\x22\x5c]
characters. C<encode> will not be affected in any way.
I<Be aware that this option makes you accept invalid JSON texts
as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files
 etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

```
  $json->loose->decode(qq|["abc
                           def"]|);
```

=head2 escape_slash

```
  $json = $json->escape_slash([$enable])
  $enabled = $json->get_escape_slash
```

If C<$enable> is true (or missing), then C<encode> will explicitly
escape I<slash> (solidus; C<U+002F>) characters to reduce the risk of
XSS (cross site scripting) that may be caused by C<< </script> >>
in a JSON text, with the cost of bloating the size of JSON texts.

This option may be useful when you embed JSON in HTML, but embedding
arbitrary JSON in HTML (by some HTML template toolkit or by string
interpolation) is risky in general. You must escape necessary
characters in correct order, depending on the context.

C<decode> will not be affected in any way.

=head2 indent_length

```
  $json = $json->indent_length($number_of_spaces)
  $length = $json->get_indent_length
```

This option is only useful when you
 also enable C<indent> or C<pretty>.

JSON::XS indents with three spaces when you C<encode> (if requested
by C<indent> or C<pretty>), and the number cannot be changed.
JSON::PP allows you to change/get the number of indent spaces with these
mutator/accessor. The default number of spaces is three (the same as
JSON::XS), and the acceptable range is from C<0> (no indentation;
it'd be better to disable indentation by C<indent(0)>) to C<15>.

=head2 sort_by

```
  $json = $json->sort_by($code_ref)
  $json = $json->sort_by($subroutine_name)
```

If you just want to sort keys (names) in JSON objects when you
C<encode>, enable C<canonical> option (see above) that allows you to
sort object keys alphabetically.

If you do need to sort non-alphabetically for whatever reasons,
you can give a code reference (or a subroutine name) to C<sort_by>,
then the argument will be passed to Perl's C<sort> built-in function.

As the sorting is done in the JSON::PP scope, you usually need to
prepend C<JSON::PP::>
 to the subroutine name, and the special variables
C<$a> and C<$b> used in the subrontine used by C<sort> function.

Example:

```
 my %ORDER = (id => 1, class => 2, name => 3);
 $json->sort_by(sub {
    ($ORDER{$JSON::PP::a} // 999) <=> ($ORDER{$JSON::PP::b} // 999)
    or $JSON::PP::a cmp $JSON::PP::b
 });
 print $json->encode([
    {name => 'CPAN', id => 1, href => 'http://cpan.org'}
 ]);
 # [{"id":1,"name":"CPAN","href":"http://cpan.org"}]
```

Note that C<sort_by> affects all the plain hashes in the data structure.
If you need finer control, C<tie> necessary hashes with a module that
implements ordered hash (such as L<Hash::Ordered> and L<Tie::IxHash>).
C<canonical> and C<sort_by> don't affect the key order in C<tie>d
hashes.

```
 use Hash::Ordered;
 tie my %hash, 'Hash::Ordered',
    (name => 'CPAN', id => 1, href => 'http://cpan.org');
 print $json->encode([\%hash]);
 # [{"name":"CPAN","id":1,"href":"http://cpan.org"}] # order is kept
```

=head1 INCREMENTAL PARSING

This
 section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON
texts. While this module always has to keep both JSON text and resulting

Perl data structure in memory at one time, it does allow you to parse a
JSON stream incrementally. It does so by accumulating text until it has
a full JSON object, which it then can decode. This process is similar to
using C<decode_prefix> to see if a full JSON object is available, but
is much more efficient (and can be implemented with a minimum of method
calls).

JSON::PP will only attempt to parse the JSON text once it is sure it
has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect mismatched
parentheses. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need
to set resource limits (e.g.
C<max_size>) to ensure the parser will stop
parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

  $json->incr_parse([$string]) # void context

  $obj_or_undef = $json->incr_parse([$string]) # scalar context

  @obj_or_empty = $json->incr_parse([$string]) # list context

This is the central parsing function. It can both append new text and
extract objects from the stream accumulated so far (both of these
functions are optional).

If C<$string> is given, then this string is appended to the already
existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply
return without doing anything further. This can be used to add more text
in as many chunks as you want.

If the method is called in scalar context, then it will try to extract
exactly I<one> JSON object. If that is successful, it will return this
object, otherwise it will return C<undef>.
If there is a parse error,
this method will croak just as C<decode> would do (one can then use
C<incr_skip> to skip the erroneous part). This is the most common way of
using the method.

And finally, in list context, it will try to extract as many objects
from the stream as it can find and return them, or the empty list

otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
  my @objs = JSON::PP->new->incr_parse ("[5][7][1,2]");
```

=head2 incr_text

```
  $lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar
 context> successfully returned an object. Under
all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

=head2 incr_skip

```
  $json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference
 to C<incr_reset> is that only text until the parse error
occurred is removed.

=head2 incr_reset

$json->incr_reset

This completely resets the incremental parser, that is, after this call,
it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to
ignore any trailing data, which means you have to reset the parser after
each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how JSON::PP maps Perl values to JSON values and
vice versa. These mappings are designed to "do the right thing" in most
circumstances automatically, preserving round-tripping characteristics
(what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions,
lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl>
refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object
 becomes a reference to a hash in Perl. No ordering of object
keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON
are represented by the same codepoints in the Perl string, so no manual
decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or
string scalar in perl, depending on its range and any fractional parts. On
the Perl level, there is no difference between those as Perl handles all
the conversion details, but an integer may take slightly less memory and

might represent more values exactly than floating point numbers.

If the number consists of digits only, JSON::PP will try to represent
it as an integer value. If that fails, it will try to represent it as
a numeric (floating point) value if that is possible without loss of
precision. Otherwise it will preserve
 the number as a string value (in
which case you lose roundtripping ability, as the JSON number will be
re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be
represented as numeric (floating point) values, possibly at a loss of
precision (in which case you might lose perfect roundtripping ability, but
the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot
represent most decimal fractions exactly, and when converting from and to
floating point, JSON::PP only guarantees precision up to but not including
the least significant bit.

When C<allow_bignum> is enabled, big integer values and any numeric
values will be converted into L<Math::BigInt> and L<Math::BigFloat>
objects respectively, without becoming string scalars or losing
precision.

=item true, false

These JSON atoms become C<JSON::PP::true> and C<JSON::PP::false>,
respectively. They are overloaded to act
 almost exactly like the numbers
C<1> and C<0>. You can check whether a scalar is a JSON boolean by using
the C<JSON::PP::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the
C<relaxed> setting, shell-style comments are allowed. They can start
anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard extension to the JSON syntax, enabled with the
C<allow_tags> setting, are tagged values. In this implementation, the
I<tag> must be a perl package/class name encoded as a JSON string, and the

I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl
value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. JSON::PP can optionally sort the hash keys (determined by the I<canonical> flag and/or I<sort_by> property), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::PP), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::PP::false> and C<JSON::PP::true> to improve readability.

```
  to_json [\0, JSON::PP::true]      # yields [false,true]
```

=item
JSON::PP::true, JSON::PP::false

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

=item JSON::PP::null

This special value becomes JSON null.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::PP>
allows various ways of handling objects. See L<OBJECT SERIALISATION>,
below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most
difficult objects to encode: JSON::PP will encode undefined scalars as
JSON C<null> values, scalars that have last been used in a string context
before encoding as JSON strings, and anything else as number value:

```
 # dump as number
 encode_json [2]                    # yields [2]
 encode_json [-3.0e17]              # yields [-3e+17]
 my $value = 5; encode_json [$value]  # yields [5]

 # used as string, so dump as string
 print $value;
 encode_json [$value]
       # yields ["5"]

 # undef becomes null
 encode_json [undef]                # yields [null]
```

You can force the type to be a JSON string by stringifying it:

```
 my $x = 3.1; # some variable containing a number
 "$x";       # stringified
 $x .= "";    # another, more awkward way to stringify
 print $x;    # perl does it for you, too, quite often
            # (but for older perls)
```

You can force the type to be a JSON number by numifying it:

```
 my $x = "3"; # some variable containing a string
 $x += 0;     # numify it, ensuring it will be dumped as a number
 $x *= 1;     # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways.

Since version 2.91_01, JSON::PP uses a different number detection logic
that converts a scalar that is possible to turn into a number safely.
The new logic is slightly faster, and tends to help people who use older

perl or who want to encode complicated data structure. However, this may
results
 in a different JSON text from the one JSON::XS encodes (and
thus may break tests that compare entire JSON texts). If you do
need the previous behavior for compatibility or for finer control,
set PERL_JSON_PP_USE_B environmental variable to true before you
C<use> JSON::PP (or JSON.pm).

Note that numerical precision has the same meaning as under Perl (so
binary to decimal conversion follows the same rules as in Perl, which
can differ to other languages). Also, your perl interpreter might expose
extensions to the floating point numbers of your platform, such as
infinities or NaN's - these cannot be represented in JSON, and it is an
error to pass those in.

JSON::PP (and JSON::XS) trusts what you pass to C<encode> method
(or C<encode_json> function) is a clean, validated data structure with
values that can be represented as valid JSON values only, because it's
not from an external data source (as opposed to JSON texts you pass to
C<decode> or C<decode_json>, which JSON::PP considers tainted
 and
doesn't trust). As JSON::PP doesn't know exactly what you and consumers
of your JSON texts want the unexpected values to be (you may want to
convert them into null, or to stringify them with or without
normalisation (string representation of infinities/NaN may vary
depending on platforms), or to croak without conversion), you're advised
to do what you and your consumers need before you encode, and also not
to numify values that may start with values that look like a number
(including infinities/NaN), without validating.

=back

=head2 OBJECT SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between
a pure JSON representation (without the ability to deserialise the object
automatically again), and a nonstandard extension to the JSON syntax,
tagged values.

=head3 SERIALISATION

What happens when C<JSON::PP> encounters a Perl object depends on the
C<allow_blessed>, C<convert_blessed>, C<allow_tags> and C<allow_bignum>
settings, which are used in
 this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON::PP> creates a tagged JSON value, using a nonstandard extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first argument being the object to serialise, and the second argument being the constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or more). These values and the paclkage/classname of the object will then be encoded as a tagged JSON value in the following format:

```
("classname")[FREEZE return values...]
```

e.g.:

```
("URI")["http://www.google.com/"]
("MyDate")[2013,10,29]
("ImageData::JPEG")["Z3...VlCg=="]
```

For example, the hypothetical C<My::Object> C<FREEZE> method might use the objects C<type> and C<id> members to encode the object:

```
sub My::Object::FREEZE {
   my ($self, $serialiser) = @_;

   ($self->{type}, $self->{id})
 }
```

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

```
sub URI::TO_JSON {
   my ($uri) = @_;
   $uri->as_string
}
```

=item 3. C<allow_bignum> is enabled and the object is a C<Math::BigInt> or C<Math::BigFloat>.

The object will be serialised as a JSON number value.

=item 4. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 5. none of the above

If none of the settings are enabled or the respective methods are missing,
C<JSON::PP> throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider:
 either
nonstandard tagging was used, in which case C<allow_tags> decides,
or objects cannot be automatically be deserialised, in which
case you can use postprocessing or the C<filter_json_object> or
C<filter_json_single_key_object> callbacks to get some real objects our of
your JSON.

This section only considers the tagged value case: a tagged JSON object
is encountered during decoding and C<allow_tags> is disabled, a parse
error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, C<JSON::PP> will look up the C<THAW> method
of the package/classname used during serialisation (it will not attempt
to load the package as a Perl module). If there is no such method, the
decoding will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first
argument, the constant string C<JSON> as second argument, and all the
values from the JSON array (the values originally returned by the
C<FREEZE> method) as remaining arguments.

The
 method must then return the object. While technically you can return
any Perl scalar, you might have to enable the C<allow_nonref> setting to
make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the
C<My::Object> from the C<FREEZE> example earlier:

```
 sub My::Object::THAW {
    my ($class, $serialiser, $type, $id) = @_;

    $class->new (type => $type, id => $id)
```

}

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify
encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be
some confusion on what these do, so here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected
by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only
control whether C<encode> escapes character values outside their respective
codeset range. Neither
of these flags conflict with each other, although
some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to
C<encode> and C<decode>, that is, texts encoded with any combination of
these flag values will be correctly decoded when the same flags are used
- in general, if you use different flag settings while encoding vs. when
decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is
simply an abstract set of character-codepoint pairs, while an encoding
takes those codepoint numbers and I<encodes> them, in our case into
octets. Unicode is (among other things) a codeset, UTF-8 is an encoding,
and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at
the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate
and expect Unicode strings, that is, characters with high
ordinal Unicode
values (> 255) will be encoded as such characters, and likewise such
characters are decoded as-is, no changes to them will be done, except
"(re-)interpreting" them as Unicode codepoints or Unicode characters,
respectively (to Perl, these are the same thing in strings unless you do
funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you
want to have UTF-16 encoded JSON texts) or when some other layer does
the encoding for you (for example, when printing to a terminal using a
filehandle that transparently encodes to UTF-8 you certainly do NOT want

to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The
C<utf8> flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while
ASCII-encoded strings are. That is because the ISO-8859-1
encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input values as governed by the C<utf8> flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag - they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters
with values > 127, which means you can interpret the resulting string
as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and
8-bit-encoding,
 and still get the same data structure back. This is useful
when your channel for JSON transfer is not 8-bit clean or the encoding
might be mangled in between (e.g. in mail), and works because ASCII is a
proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BUGS

Please report bugs on a specific behavior of this module to RT or GitHub
issues (preferred):

L<https://github.com/makamaka/JSON-PP/issues>

L<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON-PP>

As for new features and requests to change common behaviors, please
ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>)
first, by email (important!), to keep compatibility among JSON.pm backends.

Generally speaking, if you need something special for you, you are advised
to create a new module, maybe based on L<JSON::Tiny>, which is smaller and
written in a much cleaner way than this module.

=head1 SEE ALSO

The F<json_pp> command line utility for quick experiments.

L<JSON::XS>,
 L<Cpanel::JSON::XS>, and L<JSON::Tiny> for faster alternatives.
L<JSON> and L<JSON::MaybeXS> for easy migration.

L<JSON::backportPP::Compat5005> and L<JSON::backportPP::Compat5006> for older perl users.

RFC4627 (L<http://www.ietf.org/rfc/rfc4627.txt>)

RFC7159 (L<http://www.ietf.org/rfc/rfc7159.txt>)

RFC8259 (L<http://www.ietf.org/rfc/rfc8259.txt>)

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=head1 COPYRIGHT AND LICENSE

Copyright 2007-2016 by Makamaka Hannyaharamitu

Most of the documentation is taken from JSON::XS by Marc Lehmann

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP.pm
No license file was found, but licenses were detected in source scan.

```
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;


printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );


print "-----------------------------------\n";
print "->decode()\n";
```

```
print "-----------------------------------\n";

$result = timethese( -$wanttime,
  {
     'JSON::PP' => sub { $pp->decode( $json ) },
     'JSON::XS' => sub { $xs->decode( $json ) },
  },
  'none'
);
cmpthese( $result );

print "-----------------------------------\n";


__END__

=pod

=head1 SYNOPSYS

 bench_decode.pl json-file
 # or
 bench_decode.pl json-file
 minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> decoding benchmark.

=head1 AUTHOR

makamaka

=head1 LISENCE

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

=cut
```

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/eg/bench_decode.pl
No license file was found, but licenses were detected in source scan.

```
=head1 NAME

JSON::PP::Boolean - dummy module providing JSON::PP::Boolean
```

=head1 SYNOPSIS

do not "use" yourself

=head1 DESCRIPTION

This module exists only to provide overload resolution for Storable and similar modules. See
L<JSON::PP> for more info about this class.

=head1 AUTHOR

This idea is from L<JSON::XS::Boolean> written by Marc Lehmann <schmorp[at]schmorp.de>

=head1 LICENSE

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP/Boolean.pm
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

=head1 COPYRIGHT AND LICENSE

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP/Compat5005.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

=head1 SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

OO-interface

$json = JSON->new->allow_nonref;

$json_text   = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);

$pretty_printed = $json->pretty->encode($perl_scalar); # pretty-printing

=head1 VERSION

  4.02

=head1 DESCRIPTION

This module is a thin wrapper for L<JSON::XS>-compatible modules with a few
additional features. All the backend modules convert a Perl data structure
to a JSON text and vice versa. This module uses L<JSON::XS> by default,
and when JSON::XS is not available, falls back on L<JSON::PP>, which is
in the Perl core since
 5.14. If JSON::PP is not available either, this
module then falls back on JSON::backportPP (which is actually JSON::PP
in a different .pm file) bundled in the same distribution as this module.
You can also explicitly specify to use L<Cpanel::JSON::XS>, a fork of
JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them,
including extra features that other modules don't support, but as long as you
use only common features (most important ones are described below), migration
from backend to backend should be reasonably easy. For details, see each
backend module you use.

=head1 CHOOSING BACKEND

This module respects an environmental variable called C<PERL_JSON_BACKEND>
when it decides a backend module to use. If this environmental variable is
not set, it tries to load JSON::XS, and if JSON::XS is not available, it
falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available
either.

If you always don't want it to fall back on pure
 perl modules, set the
variable like this (C<export> may be C<setenv>, C<set> and the likes,
depending on your environment):

 > export PERL_JSON_BACKEND=JSON::XS

If you prefer Cpanel::JSON::XS to JSON::XS, then:

 > export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP

You may also want to set this variable at the top of your test files, in order
not to be bothered with incompatibilities between backends (you need to wrap
this in C<BEGIN>, and set before actually C<use>-ing JSON module, as it decides
its backend as soon as it's loaded):

 BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }
 use JSON;

=head1 USING OPTIONAL FEATURES

There are a few options you can set when you C<use> this module.
These historical options are only kept for backward compatibility,
and should not be used in a new application.

=over

=item -support_by_pp

  BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

  use JSON -support_by_pp;

  my $json = JSON->new;
  # escape_slash is for
 JSON::PP only.
  $json->allow_nonref->escape_slash->encode("/");

With this option, this module loads its pure perl backend along with

its XS backend (if available), and lets the XS backend to watch if you set
a flag only JSON::PP supports. When you do, the internal JSON::XS object
is replaced with a newly created JSON::PP object with the setting copied
from the XS object, so that you can use JSON::PP flags (and its slower
C<decode>/C<encode> methods) from then on. In other words, this is not
something that allows you to hook JSON::XS to change its behavior while
keeping its speed. JSON::XS and JSON::PP objects are quite different
(JSON::XS object is a blessed scalar reference, while JSON::PP object is
a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not
to use this option and just to use JSON::PP explicitly when you need
JSON::PP features.

=item -convert_blessed_universally

```
 use JSON -convert_blessed_universally;

  my $json = JSON->new->allow_nonref->convert_blessed;
 my $object = bless {foo => 'bar'}, 'Foo';
 $json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by
default (except for their boolean values, which are typically blessed
JSON::PP::Boolean objects). If you need to encode a data structure
that may contain objects, you usually need to look into the structure
and replace objects with alternative non-blessed values, or enable
C<convert_blessed> and provide a C<TO_JSON> method for each object's
(base) class that may be found in the structure, in order to let the
methods replace the objects with whatever scalar values the methods
return.

If you need to serialise data structures that may contain arbitrary
objects, it's probably better to use other serialisers (such as
L<Sereal> or L<Storable> for example), but if you do want to use
this module for that purpose, C<-convert_blessed_universally> option
may help, which tweaks
 C<encode> method of the backend to install
C<UNIVERSAL::TO_JSON> method (locally) before encoding, so that
all the objects that don't have their own C<TO_JSON> method can
fall back on the method in the C<UNIVERSAL> namespace. Note that you
still need to enable C<convert_blessed> flag to actually encode
objects in a data structure, and C<UNIVERSAL::TO_JSON> method
installed by this option only converts blessed hash/array references
into their unblessed clone (including private keys/values that are
not supposed to be exposed). Other blessed references will be
converted into null.

This feature is experimental and may be removed in the future.

=item -no_export

When you don't want to import functional interfaces from a module, you
usually supply C<()> to its C<use> statement.

  use JSON (); # no functional interfaces

If you don't want to import functional interfaces, but you also want to
use any of the above options, add C<-no_export> to the option list.

 # no functional interfaces,
while JSON::PP support is enabled.
 use JSON -support_by_pp, -no_export;

=back

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS. C<encode_json> and C<decode_json>
are exported by default.

This module also exports C<to_json> and C<from_json> for backward
compatibility. These are slower, and may expect/generate different stuff
from what C<encode_json> and C<decode_json> do, depending on their
options. It's better just to use Object-Oriented interfaces than using
these two functions.

=head2 encode_json

  $json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string
(that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

  $json_text = JSON->new->utf8->encode($perl_scalar)

Except being faster.

=head2 decode_json

  $perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries
to parse that as an

UTF-8 encoded JSON text, returning the resulting
reference. Croaks on error.

This function call is functionally identical to:

```
$perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

=head2 to_json

```
$json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default.
Croaks on error.

Basically, this function call is functionally identical to:

```
$json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but
that may change what C<to_json> expects/generates (see
C<ENCODING/CODESET FLAG NOTES> for details).

```
$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
# => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

=head2 from_json

```
$perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of C<to_json>: expects a Unicode string and tries
to parse it, returning the resulting reference. Croaks on error.

Basically,
this function call is functionally identical to:

```
$perl_scalar = JSON->new->decode($json_text)
```

You can pass an optional hash reference to modify its behavior, but
that may change what C<from_json> expects/generates (see
C<ENCODING/CODESET FLAG NOTES> for details).

```
$perl_scalar = from_json($json_text, {utf8 => 1})
# => JSON->new->utf8(1)->decode($json_text)
```

=head2 JSON::is_bool

  $is_boolean = JSON::is_bool($scalar)

Returns true if the passed scalar represents either JSON::true or
JSON::false, two constants that act like C<1> and C<0> respectively
and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to
Perl.

=head1 COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or
decoding style, within the limits of supported formats.

=head2 new

  $json = JSON->new

Creates
 a new JSON::XS-compatible backend object that can be used to de/encode JSON
strings. All boolean flags described below are by default I<disabled>
(with the exception of C<allow_nonref>, which defaults to I<enabled> since
version C<4.0>).

The mutators for flags all return the backend object again and thus calls can
be chained:

 my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
 => {"a": [1, 2]}

=head2 ascii

  $json = $json->ascii([$enable])

  $enabled = $json->get_ascii

If C<$enable> is true (or missing), then the C<encode> method will not
generate characters outside the code range C<0..127> (which is ASCII). Any
Unicode characters outside that range will be escaped using either a
single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence,
as per RFC4627. The resulting encoded JSON text can be treated as a native
Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string,
or any other superset of ASCII.

If C<$enable> is false,
 then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags. This results
in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be
transmitted over a 7-bit channel, as the encoded JSON texts will not
contain any 8 bit characters.

 JSON->new->ascii(1)->encode([chr 0x10401])
 => ["\ud801\udc01"]

=head2 latin1

   $json = $json->latin1([$enable])

   $enabled = $json->get_latin1

If C<$enable> is true (or missing), then the C<encode> method will encode
the resulting JSON text as latin1 (or iso-8859-1), escaping any characters
outside the code range C<0..255>. The resulting string can be treated as a
latin1-encoded JSON text or a native Unicode string. The C<decode> method
will not be affected in any way by this flag, as C<decode> by default
expects Unicode, which is a strict superset of latin1.

If C<$enable>
 is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON
text, as most octets will not be escaped, resulting in a smaller encoded
size. The disadvantage is that the resulting JSON text is encoded
in latin1 (and must correctly be treated as such when storing and
transferring), a rare encoding for JSON. It is therefore most useful when
you want to store data structures known to contain binary data efficiently
in files or databases, not when talking to other JSON encoders/decoders.

 JSON->new->latin1->encode (["\x{89}\x{abc}"]
 => ["\x{89}\\u0abc"]   # (perl syntax, U+abc escaped, U+89 not)

=head2 utf8

   $json = $json->utf8([$enable])

$enabled = $json->get_utf8

If C<$enable> is true (or missing), then the C<encode> method will encode
the JSON result into UTF-8,
as required by many protocols, while the
C<decode> method expects to be handled an UTF-8-encoded string. Please
note that UTF-8-encoded strings do not contain any characters outside the
range C<0..255>, they are thus useful for bytewise/binary I/O. In future
versions, enabling this option might enable autodetection of the UTF-16
and UTF-32 encoding families, as described in RFC4627.

If C<$enable> is false, then the C<encode> method will return the JSON
string as a (non-encoded) Unicode string, while C<decode> expects thus a
Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs
to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON->new->decode (decode "UTF-32LE", $jsontext);
```

=head2 pretty

$json =
$json->pretty([$enable])

This enables (or disables) all of the C<indent>, C<space_before> and
C<space_after> (and in the future possibly more) flags in one call to
generate the most readable (or most compact) form possible.

=head2 indent

$json = $json->indent([$enable])

$enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline
format as output, putting every array member or object/hash key-value pair
into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the

resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

=head2 space_before

  $json = $json->space_before([$enable])

  $enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false,
 then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts. You will also
most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

 {"key" :"value"}

=head2 space_after

  $json = $json->space_after([$enable])

  $enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space after the C<:> separating keys from values in JSON objects
and extra whitespace after the C<,> separating key-value pairs and array
members.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

 {"key": "value"}

=head2 relaxed

  $json = $json->relaxed([$enable])

```
   $enabled = $json->get_relaxed
```

If C<$enable> is true (or missing), then
 C<decode> will accept some
extensions to normal JSON syntax (see below). C<encode> will not be
affected in any way. I<Be aware that this option makes you accept invalid
JSON texts as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration files,
resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This
can be annoying if you write JSON texts manually and want to be able to
quickly append elements, so this extension accepts comma at the end of
such items not just between them:

```
 [
    1,
    2, <- this comma not normally allowed
 ]
 {
    "k1": "v1",
    "k2": "v2", <- this comma not normally allowed
 }
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are
 additionally
allowed. They are terminated by the first carriage-return or line-feed
character, after which more white-space and comments are allowed.

```
 [
    1, # this comment not allowed in JSON
       # neither this one...
 ]
```

=back

=head2 canonical

$json = $json->canonical([$enable])

$enabled = $json->get_canonical

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects
by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value
pairs in the order Perl stores them (which will likely change between runs
of the same script, and can change even within the same run from 5.18
onwards).

This option is useful if you want the same data structure to be encoded as
the same JSON text (given the same overall settings). If it is disabled,
the same hash might be encoded differently even if contains the same data,
as key-value pairs have no inherent ordering in Perl.

This
 setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

Unlike other boolean options, this option is enabled by default beginning
with version C<4.0>.

If C<$enable> is true (or missing), then the C<encode> method can convert a
non-reference into its corresponding string, number or null JSON value,
which is an extension to RFC4627. Likewise, C<decode> will accept those JSON
values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't
passed an arrayref or hashref, as JSON texts must either be an object
or array. Likewise, C<decode> will croak if given something that is not a
JSON object or array.

Example, encode a Perl scalar as JSON value with enabled C<allow_nonref>,
resulting in an invalid JSON text:

JSON->new->allow_nonref->encode ("Hello, World!")
=> "Hello, World!"

=head2
allow_unknown

$json = $json->allow_unknown ([$enable])

$enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then C<encode> will I<not> throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON C<null> value. Note that blessed objects are not included here and are handled separately by c<allow_blessed>.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference that it cannot convert otherwise. Instead, a JSON
C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object that it cannot convert otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method

on the object's class. If found, it will be called in scalar context and
the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON>
returns other blessed objects, those will be handled in the same
way. C<TO_JSON> must take care of not causing an endless recursion cycle
(== crash) in this case. The name of C<TO_JSON> was chosen because other
methods called by the Perl core (== not by
 the user of the object) are
usually in upper case letters and to avoid collisions with any C<to_json>
function or method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion.

This setting has no effect on C<decode>.

=head2 allow_tags (since version 3.0)

  $json = $json->allow_tags([$enable])

  $enabled = $json->get_allow_tags

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<FREEZE> method on
the object's class. If found, it will be used to serialise the object into
a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise
them via a call to the C<THAW> method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion, and tagged JSON values will cause a parse error
in C<decode>, as if tags were
 not part of the grammar.

=head2 boolean_values (since version 4.0)

  $json->boolean_values([$false, $true])

  ($false, $true) = $json->get_boolean_values

By default, JSON booleans will be decoded as overloaded
C<$JSON::false> and C<$JSON::true> objects.

With this method you can specify your own boolean values for decoding -

on decode, JSON C<false> will be decoded as a copy of C<$false>, and JSON C<true> will be decoded as C<$true> ("copy" here is the same thing as assigning a value to another variable, i.e. C<$copy = $false>).

This is useful when you want to pass a decoded data structure directly to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible boolean objects (like L<boolean>), but when you C<encode> a data structure with such boolean objects, you still need to enable C<convert_blessed> (and add a C<TO_JSON> method if necessary).

Calling this method without any arguments will reset the
 booleans
to their default values.

C<get_boolean_values> will return both C<$false> and C<$true> values, or the empty list when they are set to the default.

=head2 filter_json_object

  $json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (or rather a copy of it) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```
 my $js = JSON->new->filter_json_object(sub { 5 });
 #
returns [5]
 $js->decode('[{}]');
 # returns 5
 $js->decode('{"a":1, "b":2}');
```

=head2 filter_json_single_key_object

  $json = $json->filter_json_single_key_object($key [=> $coderef])

Works remotely similar to C<filter_json_object>, but is only called for JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via C<filter_json_object>, if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even C<undef> but the empty list), the callback from C<filter_json_object> will be called next, as if no single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object> one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent
 targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even things like C<__class_md5sum(classname)__>, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >> into the corresponding C<< $WIDGET{<id>} >> object:

```
 # return whatever is in $WIDGET{5}:
 JSON
    ->new
    ->filter_json_single_key_object (__widget__ => sub {
          $WIDGET{ $_[0] }
       })
    ->decode ('{"__widget__": 5')

 # this can be used with a TO_JSON method in some "widget" class
 # for serialisation to json:
 sub WidgetBase::TO_JSON {
    my ($self)
= @_;

    unless ($self->{id}) {
       $self->{id} = ..get..some..id..;
       $WIDGET{$self->{id}} = $self;
```

```
    }

    { __widget__ => $self->{id} }
  }
```

=head2 max_depth

```
  $json = $json->max_depth([$maximum_nesting_depth])

  $max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.

Nesting level is defined by number of hash- or arrayrefs that the encoder
needs to traverse to reach a given point or the number of C<{> or C<[>
characters without their matching closing parenthesis crossed to reach a
given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures
that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which
is rarely useful.

See L<JSON::XS/SECURITY
 CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

```
  $json = $json->max_size([$maximum_string_size])

  $max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is
being attempted. The default is C<0>, meaning no limit. When C<decode>
is called on a string that is longer then this many bytes, it will not
attempt to decode the string but throw an exception. This setting has no
effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when
C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON
representation. Croaks on error.

=head2 decode

$perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it,
returning the resulting simple scalar or reference.
Croaks on error.

=head2 decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception
when there is trailing garbage after the first JSON object, it will
silently stop parsing there and return the number of characters consumed
so far.

This is useful if your JSON texts are not delimited by an outer protocol
and you need to know where the JSON text ends.

JSON->new->decode_prefix ("[1] the tail")
=> ([1], 3)

=head1 ADDITIONAL METHODS

The following methods are for this module only.

=head2 backend

$backend = $json->backend

Since 2.92, C<backend> method returns an abstract backend module used currently,
which should be JSON::Backend::XS (which inherits JSON::XS or Cpanel::JSON::XS),
or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual
backend module globally.

If you need to know what is used actually, use C<isa>, instead of string comparison.

=head2
is_xs

$boolean = $json->is_xs

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

=head2 is_pp

  $boolean = $json->is_pp

Returns true if the backend inherits JSON::PP.

=head2 property

  $settings = $json->property()

Returns a reference to a hash that holds all the common flag settings.

  $json = $json->property('utf8' => 1)
  $value = $json->property('utf8') # 1

You can use this to get/set a value of a particular flag.

=head2 boolean

  $boolean_object = JSON->boolean($scalar)

Returns $JSON::true if $scalar contains a true value, $JSON::false otherwise.
You can use this as a full-qualified function (C<JSON::boolean($scalar)>).

=head1 INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON
texts. While this module always has to keep both JSON text and resulting
Perl data structure in memory at one time, it does allow you to parse a
JSON stream incrementally. It does so by
 accumulating text until it has
a full JSON object, which it then can decode. This process is similar to
using C<decode_prefix> to see if a full JSON object is available, but
is much more efficient (and can be implemented with a minimum of method
calls).

This module will only attempt to parse the JSON text once it is sure it
has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect mismatched
parentheses. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need
to set resource limits (e.g. C<max_size>) to ensure the parser will stop

parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

  $json->incr_parse([$string]) # void context

  $obj_or_undef = $json->incr_parse([$string]) # scalar context

  @obj_or_empty = $json->incr_parse([$string]) # list context

This is the central parsing function. It can both append new text and
extract objects from the stream accumulated so far (both of these
functions are optional).

If C<$string> is given, then this string is appended to the already
existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply
return without doing anything further. This can be used to add more text
in as many chunks as you want.

If the method is called in scalar context, then it will try to extract
exactly I<one> JSON object. If that is successful, it will return this
object, otherwise it will return C<undef>. If there is a parse error,
this method will croak just as C<decode> would do (one can then use
C<incr_skip> to skip the erroneous part). This is the most common way of
using the method.

And finally, in list context, it will try to extract as many objects
from the stream as it can find and
 return them, or the empty list
otherwise. For this to work, there must be no separators (other than
whitespace) between the JSON objects or arrays, instead they must be
concatenated back-to-back. If an error occurs, an exception will be
raised as in the scalar context case. Note that in this case, any
previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return
them.

  my @objs = JSON->new->incr_parse ("[5][7][1,2]");

=head2 incr_text

  $lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that
is, you can manipulate it. This I<only> works when a preceding call to
C<incr_parse> in I<scalar context> successfully returned an object. Under
all other circumstances you must not call this function (I mean it.
although in simple tests it might actually work, it I<will> fail under
real world conditions). As a special exception, you can also call this
method before having parsed anything.

That
 means you can only use this function to look at or manipulate text
before or after complete JSON objects, not while the parser is in the
middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a
JSON object or b) parsing multiple JSON objects separated by non-JSON text
(such as commas).

=head2 incr_skip

  $json->incr_skip

This will reset the state of the incremental parser and will remove
the parsed text from the input buffer so far. This is useful after
C<incr_parse> died, in which case the input buffer and incremental parser
state is left unchanged, to skip the text parsed so far and to reset the
parse state.

The difference to C<incr_reset> is that only text until the parse error
occurred is removed.

=head2 incr_reset

  $json->incr_reset

This completely resets the incremental parser, that is, after this call,
it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON
 objects and want to
ignore any trailing data, which means you have to reset the parser after
each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and
vice versa. These mappings are designed to "do the right thing" in most

circumstances automatically, preserving round-tripping characteristics
(what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions,
lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl>
refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object
keys is preserved (JSON does not preserver object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON
are
 represented by the same codepoints in the Perl string, so no manual
decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or
string scalar in perl, depending on its range and any fractional parts. On
the Perl level, there is no difference between those as Perl handles all
the conversion details, but an integer may take slightly less memory and
might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent
it as an integer value. If that fails, it will try to represent it as
a numeric (floating point) value if that is possible without loss of
precision. Otherwise it will preserve the number as a string value (in
which case you lose roundtripping ability, as the JSON number will be
re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be
represented as numeric (floating point) values, possibly at a loss of
precision
 (in which case you might lose perfect roundtripping ability, but
the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot
represent most decimal fractions exactly, and when converting from and to
floating point, this module only guarantees precision up to but not including
the least significant bit.

=item true, false

These JSON atoms become C<JSON::true> and C<JSON::false>,
respectively. They are overloaded to act almost exactly like the numbers
C<1> and C<0>. You can check whether a scalar is a JSON boolean by using
the C<JSON::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the
C<relaxed> setting, shell-style comments are allowed. They can start
anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard
 extension to the JSON syntax, enabled with the
C<allow_tags> setting, are tagged values. In this implementation, the
I<tag> must be a perl package/class name encoded as a JSON string, and the
I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a
truly typeless language, so we can only guess which JSON type is meant by
a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent
ordering in hash keys (or JSON objects), they will usually be encoded
in a pseudo-random order. This module can optionally sort the hash keys

(determined by the I<canonical> flag), so the same data structure will
serialise to the same JSON text (given same settings and version of
the same backend), but this incurs a runtime overhead and is only rarely useful,
e.g. when you want to compare some
 JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an
exception to be thrown, except for references to the integers C<0> and
C<1>, which get turned into C<false> and C<true> atoms in JSON. You can
also use C<JSON::false> and C<JSON::true> to improve readability.

```
  encode_json [\0,JSON::true]      # yields [false,true]
```

=item JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values,
respectively. You can also use C<\1> and C<\0> directly if you want.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::XS>
allows various ways of handling objects. See L<OBJECT SERIALISATION>,
below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most
difficult objects to encode: this module will encode undefined scalars as
JSON
 C<null> values, scalars that have last been used in a string context
before encoding as JSON strings, and anything else as number value:

```
  # dump as number
  encode_json [2]                  # yields [2]
  encode_json [-3.0e17]            # yields [-3e+17]
  my $value = 5; encode_json [$value]  # yields [5]

  # used as string, so dump as string
  print $value;
  encode_json [$value]             # yields ["5"]

  # undef becomes null
```

```
encode_json [undef]                # yields [null]
```

You can force the type to be a string by stringifying it:

```
my $x = 3.1; # some variable containing a number
"$x";        # stringified
$x .= "";    # another, more awkward way to stringify
print $x;    # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
my $x = "3"; # some variable containing a string
$x += 0;     # numify it, ensuring it will be dumped as a number
$x *= 1;     # same thing, the choice is yours.
```

You
can not currently force the type in other, less obscure, ways. Tell me
if you need this capability (but don't forget to explain why it's needed
:).

Since version 2.91_01, JSON::PP uses a different number detection logic
that converts a scalar that is possible to turn into a number safely.
The new logic is slightly faster, and tends to help people who use older
perl or who want to encode complicated data structure. However, this may
results in a different JSON text from the one JSON::XS encodes (and
thus may break tests that compare entire JSON texts). If you do
need the previous behavior for better compatibility or for finer control,
set PERL_JSON_PP_USE_B environmental variable to true before you
C<use> JSON.

Note that numerical precision has the same meaning as under Perl (so
binary to decimal conversion follows the same rules as in Perl, which
can differ to other languages). Also, your perl interpreter might expose
extensions to the floating point numbers of your platform,
such as
infinities or NaN's - these cannot be represented in JSON, and it is an
error to pass those in.

JSON.pm backend modules trust what you pass to C<encode> method
(or C<encode_json> function) is a clean, validated data structure with
values that can be represented as valid JSON values only, because it's
not from an external data source (as opposed to JSON texts you pass to
C<decode> or C<decode_json>, which JSON backends consider tainted and
don't trust). As JSON backends don't know exactly what you and consumers
of your JSON texts want the unexpected values to be (you may want to
convert them into null, or to stringify them with or without
normalisation (string representation of infinities/NaN may vary
depending on platforms), or to croak without conversion), you're advised

to do what you and your consumers need before you encode, and also not
to numify values that may start with values that look like a number
(including infinities/NaN), without validating.

=back

=head2 OBJECT
SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between
a pure JSON representation (without the ability to deserialise the object
automatically again), and a nonstandard extension to the JSON syntax,
tagged values.

=head3 SERIALISATION

What happens when this module encounters a Perl object depends on the
C<allow_blessed>, C<convert_blessed> and C<allow_tags> settings, which
are used in this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON> creates a tagged JSON value, using a nonstandard
extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first
argument being the object to serialise, and the second argument being the
constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or
more). These values and the paclkage/classname of the object will then be
encoded as a tagged
JSON value in the following format:

("classname")[FREEZE return values...]

e.g.:

("URI")["http://www.google.com/"]
("MyDate")[2013,10,29]
("ImageData::JPEG")["Z3...VlCg=="]

For example, the hypothetical C<My::Object> C<FREEZE> method might use the
objects C<type> and C<id> members to encode the object:

sub My::Object::FREEZE {

```
    my ($self, $serialiser) = @_;

    ($self->{type}, $self->{id})
  }
```

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

```
  sub URI::TO_JSON {
    my ($uri) = @_;
    $uri->as_string
  }
```

=item 3. C<allow_blessed> is enabled.

The
 object will be serialised as a JSON null value.

=item 4. none of the above

If none of the settings are enabled or the respective methods are missing, this module throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider: either nonstandard tagging was used, in which case C<allow_tags> decides, or objects cannot be automatically be deserialised, in which case you can use postprocessing or the C<filter_json_object> or C<filter_json_single_key_object> callbacks to get some real objects our of your JSON.

This section only considers the tagged value case: a tagged JSON object is encountered during decoding and C<allow_tags> is disabled, a parse error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, this module will look up the C<THAW> method of the package/classname used during serialisation (it will not attempt to load the package as a Perl module). If there is no such method, the

decoding
will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first argument, the constant string C<JSON> as second argument, and all the values from the JSON array (the values originally returned by the C<FREEZE> method) as remaining arguments.

The method must then return the object. While technically you can return any Perl scalar, you might have to enable the C<allow_nonref> setting to make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the C<My::Object> from the C<FREEZE> example earlier:

```
sub My::Object::THAW {
   my ($class, $serialiser, $type, $id) = @_;

   $class->new (type => $type, id => $id)
}
```

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be some confusion on what these do, so
here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only control whether C<encode> escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to C<encode> and C<decode>, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and I<encodes> them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1

(= latin 1) and ASCII are both codesets I<and> encodings at
the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate
and expect Unicode strings, that is, characters with high ordinal Unicode
values (> 255) will be encoded as such characters, and likewise such
characters are decoded as-is, no changes to them will be done, except
"(re-)interpreting" them as Unicode codepoints or Unicode characters,
respectively (to Perl, these are the same thing in strings unless you do
funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you
want to have UTF-16 encoded JSON texts) or when some other layer does
the encoding for you (for example, when printing to a terminal using a
filehandle that transparently encodes to UTF-8 you certainly do NOT want
to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag
is enabled, C<encode>/C<decode> will encode all
characters using the corresponding UTF-8 multi-byte sequence, and will
expect your input strings to be encoded as UTF-8, that is, no "character"
of the input string must have any value > 255, as UTF-8 does not allow
that.

The C<utf8> flag therefore switches between two modes: disabled means you
will get a Unicode string in Perl, enabled means you get an UTF-8 encoded
octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters
with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining
characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those
character sets (as both are proper subsets of Unicode, meaning that a
Unicode string with all character values < 256 is the same thing as a
ISO-8859-1 string, and a Unicode string with all character values < 128 is
the same thing as an ASCII
string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string,

regardless of these flags, just some more characters will be escaped using C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input values as governed by the C<utf8> flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag - they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data as JSON, at the expense of breaking
 compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for C<JSON::true> and C<JSON::false> has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

```
  if (JSON::true eq 'true') {  # now fails

  print "The result is $JSON::true now."; # => The result is 1
now.
```

And now these boolean values don't inherit JSON::Boolean, either. When you need to test a value is a JSON boolean value or not, use C<JSON::is_bool> function, instead of testing the value inherits a particular boolean class or not.

=head1 BUGS

Please report bugs on backend selection and additional features
this module provides to RT or GitHub issues for this module:

L<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON>

L<https://github.com/makamaka/JSON/issues>

As for bugs on a specific behavior, please report to the author
of the backend module you are using.

As for new features and requests to change common behaviors, please
ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>)
first, by email (important!), to keep compatibility among JSON.pm
backends.

=head1 SEE ALSO

L<JSON::XS>, L<Cpanel::JSON::XS>, L<JSON::PP> for backends.

L<JSON::MaybeXS>, an alternative that prefers Cpanel::JSON::XS.

C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>)

RFC7159
(L<http://www.ietf.org/rfc/rfc7159.txt>)

RFC8259 (L<http://www.ietf.org/rfc/rfc8259.txt>)

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JSON::XS was written by Marc Lehmann E<lt>schmorp[at]schmorp.deE<gt>

The release of this new version owes to the courtesy of Marc Lehmann.

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Contributions.txt: TianoCore Contribution Agreement 1.1

==========

= Code Contributions =

==========

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

1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
not documented, then submit the code on development email list
for the project.
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review will be required.

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

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

== Sample Change Description / Commit Message =

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

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

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

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

Patch content inline or attached

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

=== Notes for sample patch email ===

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

=== Definitions
for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the
contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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or given pursuant to this Agreement, and all documentation and
support to be provided, unless otherwise noted, shall be in the
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Contributions.txt: TianoCore Contribution Agreement 1.0

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

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under"
message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process

that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
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   * Python-2.0: http://opensource.org/licenses/Python-2.0
   * Zlib: http://opensource.org/licenses/Zlib

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

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

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

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

== Sample Change Description / Commit Message =

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

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

Full-commit-message

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

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

Patch content inline or attached

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

=== Notes for sample patch email ===

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

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.
Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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1.354 traceroute 2.1.3

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* /acpica-unix-20210105-tar-gz/acpica-unix-20210105/source/components/hardware/hwxface.c
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1.360 kerberos 1.17

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lib/libgss/gssd_pname_to_uid.c
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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
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lib/gssapi/mechglue/g_sign.c
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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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#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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*/
```

1.362 libjitterentropy 3.4.1

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1.363 expat 2.6.2

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1.364 libyaml 0.2.5

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file_io/unix/mktemp.c, strings/apr_strings.c:

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

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From dso/aix/dso.c:

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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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From
strings/apr_snprintf.c:

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* cvt - IEEE floating point formatting routines.
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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.370 tomcat-connectors 1.2.40

1.370.1 Available under license :

```
PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5'
 '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
```

```
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +

 INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
```

```
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +

  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
       'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +

  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF)
 +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_pool.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_sockbuf.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
```

```
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common'
 '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
```

```
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520'
 +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
         MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
         MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
         MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
         MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
         MOD_JK/JK_LB_WORK +
         MOD_JK/JK_MAP MOD_JK/JK_MD5
 +
         MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
         MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
         MOD_JK/JK_URL +
         MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
         MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
```

```
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
            QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
    TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
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!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=.\Release20
INTDIR=.\Release20
APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=.\Release24
INTDIR=.\Release24
!ELSE
!IFDEF
 APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=.\Release22
INTDIR=.\Release22
!ENDIF
!ENDIF
APR_LIB=libapr-1.lib
APU_LIB=libaprutil-1.lib
!ENDIF
!IFNDEF APACHE2_HOME
!ERROR Missing APACHE2_HOME environment variable.
!ENDIF

TARGET=mod_jk$(SO_VERSION)$(SO_HTTPD_VERSION)
```

```
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
ARCH=X86

ALL : "$(OUTDIR)\$(TARGET).so"


CLEAN :
 -@erase "$(INTDIR)\jk.res"
 -@erase "$(INTDIR)\jk_ajp12_worker.obj"
 -@erase "$(INTDIR)\jk_ajp13.obj"
 -@erase "$(INTDIR)\jk_ajp13_worker.obj"
 -@erase "$(INTDIR)\jk_ajp14.obj"
 -@erase "$(INTDIR)\jk_ajp14_worker.obj"
 -@erase "$(INTDIR)\jk_ajp_common.obj"
 -@erase "$(INTDIR)\jk_connect.obj"
 -@erase "$(INTDIR)\jk_context.obj"
 -@erase "$(INTDIR)\jk_lb_worker.obj"
 -@erase "$(INTDIR)\jk_map.obj"
 -@erase "$(INTDIR)\jk_md5.obj"
 -@erase "$(INTDIR)\jk_msg_buff.obj"
 -@erase "$(INTDIR)\jk_pool.obj"
 -@erase "$(INTDIR)\jk_shm.obj"
 -@erase "$(INTDIR)\jk_sockbuf.obj"
 -@erase "$(INTDIR)\jk_status.obj"
 -@erase "$(INTDIR)\jk_uri_worker_map.obj"
 -@erase
 "$(INTDIR)\jk_url.obj"
 -@erase "$(INTDIR)\jk_util.obj"
 -@erase "$(INTDIR)\jk_worker.obj"
 -@erase "$(INTDIR)\mod_jk.obj"
 -@erase "$(INTDIR)\mod_jk_src.idb"
 -@erase "$(INTDIR)\mod_jk_src.pdb"
 -@erase "$(OUTDIR)\mod_jk.exp"
 -@erase "$(OUTDIR)\mod_jk.lib"
 -@erase "$(OUTDIR)\$(TARGET).pdb"
 -@erase "$(OUTDIR)\$(TARGET).so"

"$(OUTDIR)" :
   if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"

BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\$(TARGET).bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
```

```
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$(OUTDIR)\$(TARGET).pdb" /debug /machine:$(ARCH) /out:"$(OUTDIR)\$(TARGET).so"
/implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS= \
 "$(INTDIR)\jk_ajp12_worker.obj" \
 "$(INTDIR)\jk_ajp13.obj" \
 "$(INTDIR)\jk_ajp13_worker.obj" \
 "$(INTDIR)\jk_ajp14.obj"
 \
 "$(INTDIR)\jk_ajp14_worker.obj" \
 "$(INTDIR)\jk_ajp_common.obj" \
 "$(INTDIR)\jk_connect.obj" \
 "$(INTDIR)\jk_context.obj" \
 "$(INTDIR)\jk_lb_worker.obj" \
 "$(INTDIR)\jk_map.obj" \
 "$(INTDIR)\jk_md5.obj" \
 "$(INTDIR)\jk_msg_buff.obj" \
 "$(INTDIR)\jk_pool.obj" \
 "$(INTDIR)\jk_shm.obj" \
 "$(INTDIR)\jk_sockbuf.obj" \
 "$(INTDIR)\jk_status.obj" \
 "$(INTDIR)\jk_uri_worker_map.obj" \
 "$(INTDIR)\jk_url.obj" \
 "$(INTDIR)\jk_util.obj" \
 "$(INTDIR)\jk_worker.obj" \
 "$(INTDIR)\jk.res" \
 "$(INTDIR)\mod_jk.obj"

"$(OUTDIR)\$(TARGET).so" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
   $(LINK32) @<<
 $(LINK32_FLAGS) $(LINK32_OBJS)
<<
 @IF EXIST $(OUTDIR)\$(TARGET).manifest \
  mt -nologo -manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2


CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy- -Zi -EHsc /I "..\common" /I "$(APACHE2_HOME)\include" /D
"NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)\\" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj::
   $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<
```

```
.cxx{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.c{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /win32
RSC_PROJ=/l 0x409 /fo"$(INTDIR)\jk.res" /i "..\common" /d BASENAME="mod_jk" /d "NDEBUG"

SOURCE=..\common\jk.rc

"$(INTDIR)\jk.res" : $(SOURCE) "$(INTDIR)"
  $(RSC) $(RSC_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp12_worker.c

"$(INTDIR)\jk_ajp12_worker.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp13.c

"$(INTDIR)\jk_ajp13.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp13_worker.c

"$(INTDIR)\jk_ajp13_worker.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)
```

```
SOURCE=..\common\jk_ajp14.c

"$(INTDIR)\jk_ajp14.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP)
 $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp14_worker.c

"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp_common.c

"$(INTDIR)\jk_ajp_common.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_connect.c

"$(INTDIR)\jk_connect.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_context.c

"$(INTDIR)\jk_context.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_lb_worker.c

"$(INTDIR)\jk_lb_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_map.c

"$(INTDIR)\jk_map.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_md5.c

"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)
```

```
SOURCE=..\common\jk_msg_buff.c

"$(INTDIR)\jk_msg_buff.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_pool.c

"$(INTDIR)\jk_pool.obj"
 : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_shm.c

"$(INTDIR)\jk_shm.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_sockbuf.c

"$(INTDIR)\jk_sockbuf.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_status.c

"$(INTDIR)\jk_status.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_uri_worker_map.c

"$(INTDIR)\jk_uri_worker_map.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_url.c

"$(INTDIR)\jk_url.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_util.c

"$(INTDIR)\jk_util.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)
```

SOURCE=..\common\jk_worker.c

"$(INTDIR)\jk_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\mod_jk.c

"$(INTDIR)\mod_jk.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)
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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,
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From native/common/ap_snprintf.c:

*

* cvt - IEEE floating point formatting routines.
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#

#
# NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
# created by Guenter Knauf <fuankg@apache.org>
#

#
# Declare the sub-directories to be built here
#

SUBDIRS = \
 $(EOLIST)

#
# Get the
 'head' of the build environment.  This includes default targets and
# paths to tools
#

include $(AP_WORK)/build/NWGNUhead.inc

#
# build this level's files

#
# Make sure all needed macro's are defined
#

JKCOMMON = ../common

#
# These directories will be at the beginning of the include list, followed by
# INCDIRS
#
XINCDIRS += \
   $(JKCOMMON) \
   $(APR)/include \
   $(APRUTIL)/include \
   $(AP_WORK)/include \
```

```
  $(NWOS) \
  $(EOLIST)

#
# These flags will come after CFLAGS
#
XCFLAGS  += \
  $(EOLIST)

#
# These defines will come after DEFINES
#
XDEFINES += \
  -D__NOVELL_LIBC__ \
  -D_POSIX_SOURCE \
  $(EOLIST)

#
# These flags will be added to the link.opt file
#
XLFLAGS  += \
  $(EOLIST)

#
# These values will be appended to the correct variables based on the value of
# RELEASE
#
ifeq "$(RELEASE)" "debug"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "noopt"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  +=
 \
  $(EOLIST)
```

```
XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "release"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

#
# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm.  If left blank
# TARGET_nlm (see below) will be used.
#
NLM_NAME = mod_jk

#
# This is used by the link '-desc ' directive.
# If left blank, NLM_NAME will be used.
#
NLM_DESCRIPTION = Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

#
# This is used by the link '-copy ' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
#
NLM_COPYRIGHT =

#
# This is used by the '-threadname' directive.  If left blank,
# NLM_NAME Thread will be used.
#
NLM_THREAD_NAME = JK Module

#
```

```
# If this is specified, it will override VERSION value in
# $(AP_WORK)\build\NWGNUenvironment.inc
#
NLM_VERSION = $(JK_VERSION)

#
#
 If this is specified, it will override the default of 64K
#
NLM_STACK_SIZE = 49152



#
# If this is specified it will be used by the link '-entry' directive
#
NLM_ENTRY_SYM = _LibCPrelude

#
# If this is specified it will be used by the link '-exit' directive
#
NLM_EXIT_SYM = _LibCPostlude

#
# If this is specified it will be used by the link '-check' directive
#
NLM_CHECK_SYM =

#
# If these are specified it will be used by the link '-flags' directive
#
NLM_FLAGS = AUTOUNLOAD, PSEUDOPREEMPTION

#
# If this is specified it will be linked in with the XDCData option in the def
# file instead of the default of $(NWOS)/apache.xdc.  XDCData can be disabled
# by setting APACHE_UNIPROC in the environment
#
XDCDATA  =

#
# If there is an NLM target, put it here
#
TARGET_nlm = \
 $(OBJDIR)/$(NLM_NAME).nlm \
 $(EOLIST)

#
# If there is an LIB target, put it here
```

```
#
TARGET_lib = \
 $(EOLIST)

#
# These are the OBJ files needed to create the NLM target above.
# Paths must all use the
 '/' character
#
FILES_nlm_objs = \
 $(OBJDIR)/jk_nwmain.o \
 $(OBJDIR)/jk_ajp12_worker.o \
 $(OBJDIR)/jk_ajp13.o \
 $(OBJDIR)/jk_ajp13_worker.o \
 $(OBJDIR)/jk_ajp14.o \
 $(OBJDIR)/jk_ajp14_worker.o \
 $(OBJDIR)/jk_ajp_common.o \
 $(OBJDIR)/jk_connect.o \
 $(OBJDIR)/jk_context.o \
 $(OBJDIR)/jk_lb_worker.o \
 $(OBJDIR)/jk_map.o \
 $(OBJDIR)/jk_md5.o \
 $(OBJDIR)/jk_msg_buff.o \
 $(OBJDIR)/jk_pool.o \
 $(OBJDIR)/jk_shm.o \
 $(OBJDIR)/jk_sockbuf.o \
 $(OBJDIR)/jk_status.o \
 $(OBJDIR)/jk_uri_worker_map.o \
 $(OBJDIR)/jk_url.o \
 $(OBJDIR)/jk_util.o \
 $(OBJDIR)/jk_worker.o \
 $(OBJDIR)/mod_jk.o \
 $(EOLIST)

#
# These are the LIB files needed to create the NLM target above.
# These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
 $(NOVELLLIBC)/imports/libcpre.o \
 $(EOLIST)

#
# These are the modules that the above NLM target depends on to load.
# These will be added as a module command in the link.opt file.
#
FILES_nlm_modules = \
 aprlib \
```

```
 libc \
 $(EOLIST)

#
#
 If the nlm has a msg file, put it's path here
#
FILE_nlm_msg =

#
# If the nlm has a hlp file put it's path here
#
FILE_nlm_hlp =

#
# If this is specified, it will override $(NWOS)\copyright.txt.
#
FILE_nlm_copyright =

#
# Any additional imports go here
#
FILES_nlm_Ximports = \
 @aprlib.imp \
 @httpd.imp \
 @libc.imp \
 @ws2nlm.imp \
 $(EOLIST)

#
# Any symbols exported to here
#
FILES_nlm_exports = \
 jk_module \
 $(EOLIST)

#
# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
#
FILES_lib_objs = \
 $(EOLIST)

#
# implement targets and dependancies (leave this section alone)
#

libs :: $(OBJDIR) $(TARGET_lib)
```

```
nlms :: libs $(TARGET_nlm)

#
# Updated this target to create necessary directories and copy files to the
# correct place.  (See $(AP_WORK)\build\NWGNUhead.inc for examples)
#
install :: nlms FORCE
 copy $(OBJDIR)\*.nlm $(INSTALL)\Apache2\modules\*.*

#
# Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc:
 $(JKCOMMON)/jk_version.h $(OBJDIR)
 @echo Creating $@
 @awk -f ../../support/get_ver.awk $< > $@



#
# Include the version info retrieved from jk_version.h
#

-include $(OBJDIR)/version.inc

#
# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#

include $(AP_WORK)/build/NWGNUtail.inc
```

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  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c')
 +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
```

```
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5'
 '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF)
 +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT' +
       'USE_SO_RCVTIMEO' + 'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED)
 +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
```

```
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD
 MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_pool.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_sockbuf.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT')
 +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
```

```
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common'
 '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
```

```
            MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
            MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
            MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
            MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
            MOD_JK/JK_LB_WORK +
            MOD_JK/JK_MAP MOD_JK/JK_MD5 +
            MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
            MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
            MOD_JK/JK_URL +
            MOD_JK/JK_UTIL MOD_JK/JK_WORKER +

          MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
           EXPORT(*SRCFILE) +
           BNDDIR() +
           TGTRLS(*CURRENT) +
           SRCFILE(MOD_JK/QSRVSRC) +
           SRCMBR(MOD_JK) +
           USRPRF(*USER) +
           BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
                 QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
           TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
```

1.371 libinih 0.0

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1.372 openjdk 1.8.0

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uganda.txt For Vim version 9.1. Last change: 2022 Mar 02

VIM REFERENCE MANUAL by Bram Moolenaar

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SUMMARY
iccf *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

https://iccf-holland.org/
https://www.vim.org/iccf/
https://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

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- If you are happy with Vim, please express that by reading the rest of this
file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
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- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not
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==
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there

usually is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that in the past 10 to 30% of the Ugandans
are infected with HIV. Because
parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. Although AIDS is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them
how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production
site for cement slabs. These are used to build a good latrine.
They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water

and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
If you must send a check send it to our Canadian partner:
https://www.kuwasha.net/

Canada: Contact Kuwasha in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. Kuwasha forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated

because of Vim. Look on their site for information about
sponsorship: https://www.kuwasha.net/
If you make a donation to Kuwasha you will receive a tax
receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting
ICCF Holland" in
Amersfoort. This will allow for tax deduction if you live in
Holland. ING bank, IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
https://iccf-holland.org/germany.html

Europe: Use a bank transfer if possible. See "Others" below for the
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The e-mail address for sending the money to is:
Bram@iccf-holland.org

Others: Transfer to this account if possible:
ING bank: IBAN: NL95 INGB 0004 5487 74
Swift code: INGBNL2A
under the name "stichting ICCF Holland", Amersfoort
Checks are
not accepted.

vim:tw=78:ts=8:noet:ft=help:norl:

1.377 flex 2.6.4

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1.378 libfastjson 0.99.9

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1.379 pcre2 10.40

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the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

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1.380 brotli 1.0.9

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1.381 maven 3.0.5

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1.384 nasm 2.15.05

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1.385 shared-mime-info 2.1

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- cipher/sha256-avx-amd64.S
- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
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- cipher/sha512-ssse3-i386.c

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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device.  It is based on X11's `xditview' program
  and thus has the X license.

    src/devices/xditview/DESC.in
     src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
    src/devices/xditview/DviP.h
    src/devices/xditview/FontMap
    src/devices/xditview/GXditview.ad
    src/devices/xditview/Menu.h
    src/devices/xditview/ad2c
    src/devices/xditview/device.c
    src/devices/xditview/device.h
    src/devices/xditview/draw.c
    src/devices/xditview/font.c
    src/devices/xditview/gray1.bm
    src/devices/xditview/gray2.bm
    src/devices/xditview/gray3.bm
    src/devices/xditview/gray4.bm
    src/devices/xditview/gray5.bm
    src/devices/xditview/gray6.bm
    src/devices/xditview/gray7.bm
    src/devices/xditview/gray8.bm
    src/devices/xditview/gxditview.man
    src/devices/xditview/lex.c
    src/devices/xditview/page.c
    src/devices/xditview/parse.c
    src/devices/xditview/xdit.bm
    src/devices/xditview/xdit_mask.bm
    src/devices/xditview/xditview.c

    src/include/DviChar.h
    src/include/XFontName.h

     src/libs/libxutil/DviChar.c
    src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

    tmac/doc.tmac
    tmac/doc-old.tmac
    tmac/doc-common
    tmac/doc-ditroff
    tmac/doc-nroff

tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex .

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the
same patterns as the file
`frhyph.tex' (for TeX), which can be found at

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
patterns as the files `dehypht-x-2017-03-31.pat' and
`dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found
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. The file `tmac/hyphen.cs' contains the same patterns as the file
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1.392 hyperscan 5.1.0

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1.393 libpciaccess 0.16

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1.394 lvm2 2.03.11

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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 */
```

1.396 jemalloc 5.3.0

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1.397 p7zip 16.02

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. 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
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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
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For an executable, the required form of the "work that uses the
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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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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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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
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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)
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4. You may copy and distribute the Library (or a portion or derivative
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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.

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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.

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.

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1.402 slang 2.3.2

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1.403 gcc-run-time 10.3.0

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02110-1301, USA. */

#ifndef __VTV_H__
#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
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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

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DRuntime: Runtime Library for the D Programming Language
==========

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```
/* Definitions for BSD assembler syntax for Intel 386
  (actually AT&T syntax for insns and operands,
  adapted to BSD conventions for symbol names and debugging.)
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```

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<http://www.gnu.org/licenses/>. */

```
/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */
```

```
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */
```

```
#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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Version 3, 29 June 2007

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1.405 python 3.9.9

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A. HISTORY OF THE SOFTWARE
==========

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see

https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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

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

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1.406 pcre 8.44

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1.407 elfutils 0.183

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

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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

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1.411 python3-iniparse 0.4

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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.

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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)
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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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Thanks to the many outside volunteers who have worked under Guido's
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1.413 opkg-utils 0.4.3

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1.414 libgcc 10.3.0

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  02110-1301, USA.  */


#ifndef __VTV_H__
#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
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */

--------------------------------------------------------------------------

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

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DRuntime: Runtime Library for the D Programming Language
==========

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<http://www.gnu.org/licenses/>.  */

/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */
```

```
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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1.420 util-linux-libuuid 2.38

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
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#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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*/
```

1.421 nvme-cli 1.13

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1.428 python-requests 2.26.0

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* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/selector/AndDependencySelector.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/traverser/StaticDependencyTraverser.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/DefaultSessionData.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/listener/DefaultTransferEvent.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/transformer/NearestVersionConflictResolver.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/transformer/JavaEffectiveScopeCalculator.java
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* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/repository/DefaultMirrorSelector.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/FilteringDependencyVisitor.java

* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/listener/DefaultRepositoryEvent.java
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* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/selector/ScopeDependencySelector.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/repository/ChainedWorkspaceReader.java
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/aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/FilterRepositorySystemSession.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/version/GenericVersionConstraint.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/artifact/OverlayArtifactTypeRegistry.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/CloningDependencyVisitor.java

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1.431 maven-aether-provider 3.0.5

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1.433 packaging 21.0

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1.434 crs-z-agent 0.6.0

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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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		
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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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1.437 commons-logging 1.1.1

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1.438 python-certifi 2020.12.5

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

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

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

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

1.439 maven-plugin-api 3.0.5

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1.440 docker 20.10.17

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1.441 sisu-inject-plexus 2.3.0

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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/lookup/ConverterLookup.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/FileConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/DoubleConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/DateConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/composite/PlexusConfigurationConverter.java
*
/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/BasicComponentConfigurator.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/EnumConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/ByteConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/Converter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/composite/ObjectWithFieldsConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/composite/ComponentDefaultValueSetter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/FloatConverter.java

* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/lookup/DefaultConverterLookup.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusXmlBeanModule.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentRequirement.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/DefaultPlexusContainer.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentDescriptor.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusContainerException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusAnnotatedBeanModule.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusPropertyBinder.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusTypeRegistry.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/context/ContextException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusXmlMetadata.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/RealmFilter.java

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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/DefaultPlexusBeans.java
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* /sisu-inject-plexus-2-3-0-sources-2-
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/ContainerConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/configuration/xml/XmlPlexusConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/configuration/PlexusConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Suspendable.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/Logger.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/factory/ComponentFactory.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/lifecycles/PlexusLifecycleManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanMetadata.java
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 /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanLocator.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/DefaultContainerConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusXmlScanner.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanSource.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/OptionalPropertyBinding.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/configuration/PlexusConfigurationException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/AbstractLogger.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/ProvidedPropertyBinding.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/MutablePlexusContainer.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/HintedPlexusBeans.java
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 /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/context/ContextMapAdapter.java
* /sisu-inject-plexus-2-3-0-sources-2-

jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/InitializationException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/Roles.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusTypeBinder.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/MissingPlexusBean.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Configurable.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusConstants.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanModule.java
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/sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/DefaultPlexusBeanLocator.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/AbstractLogEnabled.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/BaseLoggerManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/CloningClassLoader.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/expression/ExpressionEvaluationException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/AbstractLoggerManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/Hints.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/console/ConsoleLoggerManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/LazyPlexusBean.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusAnnotatedMetadata.java
*
/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Initializable.java
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jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Contextualizable.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBean.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/ComponentDescriptorBeanModule.java
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/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentDependency.java
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* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/repository/exception/ComponentLookupException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusTypeListener.java
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jar/org/codehaus/plexus/component/composition/CycleDetectedInComponentGraphException.java
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jar/org/codehaus/plexus/component/configurator/expression/ExpressionEvaluator.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/expression/DefaultExpressionEvaluator.java
*

/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusTestCase.java
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jar/org/codehaus/plexus/component/configurator/expression/TypeAwareExpressionEvaluator.java
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1.443 pep517 0.11.0

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1.448 which 1.3.1

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*
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* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/UnproxyableResolutionException.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Typed.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/InjectionException.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Instance.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/AmbiguousResolutionException.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/UnsatisfiedResolutionException.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/WatchedBeans.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/Streams.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Sisu.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/ImplicitBindings.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/RankingFunction.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/SisuActivator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/Wiring.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/ImplementationVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/SisuGuice.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/BeanLocator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/Main.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/BeanProviders.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/spi/BindingPublisher.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/converters/URLTypeConverter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Description.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/ElementAnalyzer.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/InjectedTest.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/EmptyClassVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/ElementMerger.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Parameters.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/converters/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/LazyBeanEntry.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/EntryListAdapter.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Nullable.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Mediator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/NamedClass.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/QualifierCache.java
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 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/AbstractDeferredClass.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/QualifiedTypeBinder.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/QualifyingStrategy.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/spi/BindingSubscriber.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/EagerSingleton.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/ParameterKeys.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/converters/FileTypeConverter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/ClassSpaceScanner.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/ClassSpaceVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/MutableBeanLocator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/BeanCache.java
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 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/SpaceModule.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/GlobberStrategy.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/DependencyVerifier.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/DependencyAnalyzer.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/inject/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/BeanEntry.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/BeanDescription.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/Logs.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/spi/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/QualifiedTypeVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/RankedBindings.java
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 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/IgnoreSetters.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/DefaultBeanLocator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/DefaultRankingFunction.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/InjectorPublisher.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/InjectedTestCase.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/ProviderIterableAdapter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/HiddenBinding.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/LocatedBeans.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Specializes.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/javax/inject/Inject.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/MethodWriter.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Handler.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Frame.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/AnnotationWriter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Label.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Item.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/FieldVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/FieldWriter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ClassWriter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ByteVector.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Attribute.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Type.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Opcodes.java

* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/MethodVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ClassReader.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/BeanScanning.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/Weak.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/MergedProperties.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/Soft.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/AbstractSisuIndex.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/SisuIndexAPT6.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/ClassFinder.java
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1.452 colorama 0.4.1

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1.453 commons-codec 1.6

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1.454 more-itertools 8.8.0

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1.455 aether-spi 1.13.1

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1.456 json-net 0.17.0

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1.457 python-setuptools 41.2.0

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1.458 msgpack 1.0.2

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1.459 packaging 19.0

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1.460 python-certifi 2019.06.16

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.461 aether-connector-wagon 1.13.1

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1.462 plexus-sec-dispatcher 1.3

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1.463 jackson 2.12.0

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1.464 xerces-j 2.7.1

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1.465 plexus-cipher 1.7

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* /plexus-cipher-1-7-sources-jar/org/sonatype/plexus/components/cipher/DefaultPlexusCipher.java

1.466 jackson-databind 2.12.0

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* /jersey-guice-1-4-sources-jar/com/sun/jersey/guice/spi/container/GuiceComponentProviderFactory.java
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1.468 distlib 0.2.9.post0

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==========

Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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)
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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
3.2	3.1	2010	PSF	yes

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- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
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- Andr Espaze
- Boris Feld
- Andrew Francis
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- Patrice Gauthier
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-
 Amos Latteier
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- Arc Riley
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1.469 maven-repository-metadata 3.0.5

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1.470 wagon-provider-api 2.4

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package org.sonatype.aether.collection;

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*******************************************************************************/

import java.util.Collection;
import java.util.Collections;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.List;

import org.sonatype.aether.RepositoryException;
import org.sonatype.aether.artifact.Artifact;
import org.sonatype.aether.graph.DependencyNode;
import org.sonatype.aether.version.VersionConstraint;

/**
* Thrown in case of an unsolvable conflict between different version constraints for a dependency.
*
* @author Benjamin Bentmann
*/
public class UnsolvableVersionConflictException
    extends RepositoryException
{

  private final Object dependencyConflictId;
```

```
  private final Collection<String> versions;

  private final Collection<List<DependencyNode>> paths;

  public UnsolvableVersionConflictException( Object dependencyConflictId, Collection<String> versions )
  {
    super( "Could not resolve version conflict for " + dependencyConflictId + " with requested versions "
      + toList( versions ) );
    this.dependencyConflictId = ( dependencyConflictId != null ) ? dependencyConflictId : "";
    this.versions = ( versions != null ) ? versions : Collections.<String> emptyList();
    this.paths = Collections.emptyList();
  }

  private static String toList( Collection<String> versions )
  {
    StringBuilder buffer = new StringBuilder( 256 );
    if ( versions != null )
    {
      for ( String version : versions )
      {
        if ( buffer.length() > 0 )

  {
          buffer.append( ", " );
        }
        buffer.append( version );
      }
    }
    return buffer.toString();
  }

  public UnsolvableVersionConflictException( Collection<List<DependencyNode>> paths, Object
dependencyConflictId )
  {
    super( "Could not resolve version conflict among " + toPaths( paths ) );
    this.dependencyConflictId = ( dependencyConflictId != null ) ? dependencyConflictId : "";
    if ( paths == null )
    {
      this.paths = Collections.emptyList();
      this.versions = Collections.emptyList();
    }
    else
    {
      this.paths = paths;
      this.versions = new LinkedHashSet<String>();
      for ( List<DependencyNode> path : paths )
      {
```

```
            VersionConstraint constraint = path.get( path.size() - 1 ).getVersionConstraint();
            if ( constraint != null && !constraint.getRanges().isEmpty() )

{
                versions.add( constraint.toString() );
            }
        }
    }
 }

 private static String toPaths( Collection<List<DependencyNode>> paths )
 {
    String result = "";

    if ( paths != null )
    {
        Collection<String> strings = new LinkedHashSet<String>();

        for ( List<DependencyNode> path : paths )
        {
            strings.add( toPath( path ) );
        }

        result = strings.toString();
    }

    return result;
 }

 private static String toPath( List<DependencyNode> path )
 {
    StringBuilder buffer = new StringBuilder( 256 );

    for ( Iterator<DependencyNode> it = path.iterator(); it.hasNext(); )
    {
        DependencyNode node = it.next();
        if ( node.getDependency() == null )
        {
            continue;
        }

        Artifact artifact = node.getDependency().getArtifact();
        buffer.append( artifact.getGroupId()
);
        buffer.append( ':' ).append( artifact.getArtifactId() );
        buffer.append( ':' ).append( artifact.getExtension() );
        if ( artifact.getClassifier().length() > 0 )
        {
```

```
            buffer.append( ':' ).append( artifact.getClassifier() );
        }
        buffer.append( ':' ).append( node.getVersionConstraint() );

        if ( it.hasNext() )
        {
            buffer.append( " -> " );
        }
    }

    return buffer.toString();
  }

  /**
   * Gets the conflict id of the dependency that encountered the version conflict.
   *
   * @return The conflict id, never {@code null}.
   */
  public Object getDependencyConflictId()
  {
    return dependencyConflictId;
  }

  /**
   * Gets the paths leading to the conflicting dependencies.
   *
   * @return The (read-only) paths leading to the conflicting dependencies, never {@code null}.
   */
  public Collection<List<DependencyNode>>
 getPaths()
  {
    return paths;
  }

  /**
   * Gets the conflicting version constraints of the dependency.
   *
   * @return The (read-only) conflicting version constraints, never {@code null}.
   */
  public Collection<String> getVersions()
  {
    return versions;
  }

}
package org.sonatype.aether.repository;

/*******************************************************************************
```

```
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******************************************************************************/

/**
* A policy controlling access to a repository. <em>Note:</em> Instances of this class are immutable and the exposed
* mutators return new objects rather than changing the current instance.
*
* @author Benjamin Bentmann
*/
public final class RepositoryPolicy
{

  /**
   * Never update locally cached data.
   */
  public static final String UPDATE_POLICY_NEVER = "never";

  /**
   * Always update locally cached data.
   */
  public static final String UPDATE_POLICY_ALWAYS = "always";

   /**
   * Update locally cached data once a day.
   */
  public static final String UPDATE_POLICY_DAILY = "daily";

  /**
   * Update locally cached data every X minutes as given by "interval:X".
   */
  public static final String UPDATE_POLICY_INTERVAL = "interval";

  /**
   * Verify checksums and fail the resolution if they do not match.
   */
  public static final String CHECKSUM_POLICY_FAIL = "fail";

  /**
   * Verify checksums and warn if they do not match.
   */
  public static final String CHECKSUM_POLICY_WARN = "warn";

  /**
```

```
     * Do not verify checksums.
     */
    public static final String CHECKSUM_POLICY_IGNORE = "ignore";

    private final boolean enabled;

    private final String updatePolicy;

    private final String checksumPolicy;

    /**
     * Creates a new policy with checksum warnings and daily update checks.
     */
    public RepositoryPolicy()
    {
        this( true, UPDATE_POLICY_DAILY, CHECKSUM_POLICY_WARN
);
    }

    /**
     * Creates a new policy with the specified settings.
     *
     * @param enabled A flag whether the associated repository should be accessed or not.
     * @param updatePolicy The update interval after which locally cached data from the repository is considered
stale
     *            and should be refetched, may be {@code null}.
     * @param checksumPolicy The way checksum verification should be handled, may be {@code null}.
     */
    public RepositoryPolicy( boolean enabled, String updatePolicy, String checksumPolicy )
    {
        this.enabled = enabled;
        this.updatePolicy = ( updatePolicy != null ) ? updatePolicy : "";
        this.checksumPolicy = ( checksumPolicy != null ) ? checksumPolicy : "";
    }

    /**
     * Indicates whether the associated repository should be contacted or not.
     *
     * @return {@code true} if the repository should be contacted, {@code false} otherwise.
     */
    public boolean isEnabled()
    {
        return
 enabled;
    }

    /**
     * Sets the enabled flag for the associated repository.
```

```
     *
     * @param enabled {@code true} if the repository should be contacted, {@code false} otherwise.
     * @return The new policy, never {@code null}.
     */
    public RepositoryPolicy setEnabled( boolean enabled )
    {
        if ( this.enabled == enabled )
        {
            return this;
        }
        return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
    }

    /**
     * Gets the update policy for locally cached data from the repository.
     *
     * @return The update policy, never {@code null}.
     */
    public String getUpdatePolicy()
    {
        return updatePolicy;
    }

    /**
     * Sets the update policy for locally cached data from the repository. Well-known policies are
     * {@link #UPDATE_POLICY_NEVER}, {@link #UPDATE_POLICY_ALWAYS}, {@link
#UPDATE_POLICY_DAILY} and
     * {@link #UPDATE_POLICY_INTERVAL}
     *
     * @param updatePolicy The
   update policy, may be {@code null}.
     * @return The new policy, never {@code null}.
     */
    public RepositoryPolicy setUpdatePolicy( String updatePolicy )
    {
        if ( this.updatePolicy.equals( updatePolicy ) )
        {
            return this;
        }
        return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
    }

    /**
     * Gets the policy for checksum validation.
     *
     * @return The checksum policy, never {@code null}.
     */
    public String getChecksumPolicy()
```

```
    {
        return checksumPolicy;
    }

    /**
     * Sets the policy for checksum validation. Well-known policies are {@link #CHECKSUM_POLICY_FAIL},
     * {@link #CHECKSUM_POLICY_WARN} and {@link #CHECKSUM_POLICY_IGNORE}.
     *
     * @param checksumPolicy The checksum policy, may be {@code null}.
     * @return The new policy, never {@code null}.
     */
    public RepositoryPolicy setChecksumPolicy( String checksumPolicy )
    {
        if ( this.checksumPolicy.equals(
checksumPolicy ) )
        {
            return this;
        }
        return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
    }

    @Override
    public String toString()
    {
        StringBuilder buffer = new StringBuilder( 256 );
        buffer.append( "enabled=" ).append( isEnabled() );
        buffer.append( ", checksums=" ).append( getChecksumPolicy() );
        buffer.append( ", updates=" ).append( getUpdatePolicy() );
        return buffer.toString();
    }

    @Override
    public boolean equals( Object obj )
    {
        if ( this == obj )
        {
            return true;
        }

        if ( obj == null || !getClass().equals( obj.getClass() ) )
        {
            return false;
        }

        RepositoryPolicy that = (RepositoryPolicy) obj;

        return enabled == that.enabled && updatePolicy.equals( that.updatePolicy )
            && checksumPolicy.equals( that.checksumPolicy );
```

```
  }

  @Override
  public int hashCode()
  {
      int hash = 17;
     hash = hash * 31 + ( enabled ? 1 : 0 );
     hash = hash * 31 + updatePolicy.hashCode();
     hash = hash * 31 + checksumPolicy.hashCode();
     return hash;
  }

}
```

1.472 idna 3.1

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1.473 wagon-http 2.4

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1.474 rfc3986 1.3.2

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1.475 crs-client 0.6.0

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"SWL",
"Saxpath",
"Sendmail",
"Sendmail-8.23",
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// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
   'license is similar to the valid expression "Apache-2.0"'
  ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
 }
);
```

```
assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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"""
spdx-license-ids

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A list of [SPDX license](https://spdx.org/licenses/) identifiers

Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
```

```
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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1.477 python-certifi 2021.05.30

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities

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

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1.478 tar 4.4.13

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1.479 plexus-component-annotations 1.5.5

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* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/PrefixedValueSourceWrapper.java
* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/Interpolator.java
* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/InterpolationCycleException.java
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/**
   * Determines if the current OS matches the given OS
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   *
   * @param version the OS version to check for
   * @return true if the OS matches
   * @since 1.0
   */
```

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* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/multi/MultiDelimiterStringSearchInterpolator.java
* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/multi/DelimiterSpecification.java
* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/SingleResponseValueSource.java

1.481 distlib 0.3.2

1.481.1 Available under license :

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
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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
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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- Nicolas Cadou
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1.482 urllib3 1.26.6

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1.483 maven-settings-builder 3.0.5

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1.484 pep517 0.5.0

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1.486 plexus-utils 2.0.6

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1.487 bcel 5.1

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Jackson JSON processor

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1.491 protobuf 1.4.3

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1.494 aether-impl 1.13.1

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Found in path(s):
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/Slf4jLogger.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/Utils.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultArtifactResolver.java
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* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/MetadataResolver.java
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 /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultLocalRepositoryProvider.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/AbstractLocalRepositoryMaintainer.java
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* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/LocalRepositoryEvent.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/GraphEdge.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/ArtifactDescriptorReader.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/PlexusLogger.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/UpdateCheck.java
*
 /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DataPool.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/SyncContextFactory.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/EnhancedLocalRepositoryManager.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultFileProcessor.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/CachingArtifactTypeRegistry.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/UpdateCheckManager.java

* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/VersionResolver.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/Installer.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/RemoteRepositoryManager.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/SimpleDigest.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultServiceLocator.java
*
/aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/MetadataGeneratorFactory.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultLocalRepositoryEvent.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultSyncContextFactory.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/SimpleLocalRepositoryManagerFactory.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/DependencyCollector.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/RepositoryEventDispatcher.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultMetadataResolver.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/LocalRepositoryMaintainer.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/TrackingFileManager.java
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jar/org/sonatype/aether/impl/internal/EnhancedLocalRepositoryManagerFactory.java
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* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultRepositoryEventDispatcher.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultRepositorySystem.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultUpdateCheckManager.java
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*
/aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/GraphNode.java
* /aether-impl-1-13-1-sources-2-
jar/org/sonatype/aether/impl/internal/DefaultDependencyGraphTransformationContext.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/ArtifactRequestBuilder.java

1.495 html5lib 1.1

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1.496 urllib3 1.25.3

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

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

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

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

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

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

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

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

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

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

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

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

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

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

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

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

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

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

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

* Jason Robinson <jaywink@basshero.org>

 * Add missing WrappedSocket.fileno method in PyOpenSSL

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Seth Michael Larson <sethmichaellarson@protonmail.com>

  * Created selectors backport that supports PEP 475.

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

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

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

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

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

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai
 (through Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>

* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header
regardless of case when redirecting to cross-site

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

1.497 maven-model 3.0.5

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1.498 pyasn1 0.4.8

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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).

Features
---

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

Why using pyasn1

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

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

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
Olivier Dubuisson is one of those high quality books freely
available on the Internet.

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

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

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

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

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

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

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

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

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

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

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

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

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

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

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

How to get pyasn1

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

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

If

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

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ASN.1 library for Python
========================

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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.org/project/pyasn1/>`_ library implements
ASN.1 support in pure-Python.

What is ASN.1

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

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on 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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```
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```

Getting help

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

Books on ASN.1

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

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

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

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

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

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

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

book on the subject.

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1.499 python-pip 19.2.3

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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
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All Python releases are Open Source (see http://www.opensource.org for
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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
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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
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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* /asm-5-0-3-sources-16-jar/org/objectweb/asm/AnnotationVisitor.java

1.501 jackson-annotations 2.12.0

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1.502 example 21.12

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Found in path(s):
*
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: example
Version: 21.12
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: Apache Software License
Platform: UNKNOWN

UNKNOWN

Found in path(s):
* /example-21-12-dist-info-zip/inputdir/packages_extracted/wheel/127/example-21.12.dist-info/METADATA

1.503 xml-commons-resolver 1.1

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1.510 glibc-locale 2.33

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#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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```
#ifndef IFCONFIG_SYSTEM_BSD_H
# define IFCONFIG_SYSTEM_BSD_H
# include "../printif.h"
# include "../options.h"
# include <sys/sockio.h>

/* BSD
 variant chooser.  */
# if defined __DragonFly__
#  define IU_BSD_TYPE "dragonfly"
# elif defined __FreeBSD__
#  define IU_BSD_TYPE "freebsd"
# elif defined __FreeBSD_kernel__
#  define IU_BSD_TYPE "GNU/kFreeBSD"
```

```
# elif defined __NetBSD__
#  define IU_BSD_TYPE "netbsd"
# elif defined __OpenBSD__
#  define IU_BSD_TYPE "openbsd"
#  define ETHERNAME "lladdr"
# else /* Exotic BSD versions.  */
#  define IU_BSD_TYPE "unknownbsd"
# endif

# ifndef ETHERNAME
#  define ETHERNAME "ether"
# endif


/* Option support.  */

# undef SYSTEM_SHORT_OPTIONS
# undef SYSTEM_LONG_OPTIONS

struct system_ifconfig
{
 int valid;
};


/* Output format support.  */

# define _IU_CAT2(a, b) a ## b
# define _IU_DCL(name, fld)    \
 {#name, _IU_CAT2(system_fh_, fld) }
# define _IU_EXTRN(fld)    \
 extern void _IU_CAT2(system_fh_, fld) (format_data_t, int, char *[]); \

# define SYSTEM_FORMAT_HANDLER \
 {"bsd", fh_nothing},  \
 {IU_BSD_TYPE, fh_nothing}, \
 {"brdaddr?", system_fh_brdaddr_query}, \
 {"brdaddr",
 system_fh_brdaddr}, \
 {"hwaddr?", system_fh_hwaddr_query}, \
 {"hwaddr", system_fh_hwaddr}, \
 {"hwtype?", system_fh_hwtype_query}, \
 {"hwtype", system_fh_hwtype}, \
 {"media?", system_fh_media_query}, \
 {"media", system_fh_media}, \
 {"netmask?", system_fh_netmask_query}, \
 {"netmask", system_fh_netmask}, \
 {"status?", system_fh_status_query}, \
```

```
{"status", system_fh_status}, \
{"tunnel?", system_fh_tunnel_query}, \
{"tundst", system_fh_tundst}, \
{"tunsrc", system_fh_tunsrc}, \
{"ifstat?", system_fh_ifstat_query}, \
_IU_DCL (collisions, collisions), \
_IU_DCL (rxbytes, rx_bytes), \
_IU_DCL (rxdropped, rx_dropped), \
_IU_DCL (rxerrors, rx_errors), \
{"rxfifoerr", system_fh_missing_stat}, \
{"rxframeerr", system_fh_missing_stat}, \
_IU_DCL (rxpackets, rx_packets), \
_IU_DCL (txbytes, tx_bytes), \
{"txcarrier", system_fh_missing_stat}, \
_IU_DCL (txdropped, tx_dropped), \
_IU_DCL (txerrors, tx_errors), \
{"txfifoerr", system_fh_missing_stat},
\
_IU_DCL (txpackets, tx_packets),

void system_fh_brdaddr_query (format_data_t form, int argc, char *argv[]);
void system_fh_brdaddr (format_data_t form, int argc, char *argv[]);
void system_fh_hwaddr_query (format_data_t form, int argc, char *argv[]);
void system_fh_hwaddr (format_data_t form, int argc, char *argv[]);
void system_fh_hwtype_query (format_data_t form, int argc, char *argv[]);
void system_fh_hwtype (format_data_t form, int argc, char *argv[]);
void system_fh_media_query (format_data_t form, int argc, char *argv[]);
void system_fh_media (format_data_t form, int argc, char *argv[]);
void system_fh_netmask_query (format_data_t form, int argc, char *argv[]);
void system_fh_netmask (format_data_t form, int argc, char *argv[]);
void system_fh_status_query (format_data_t form, int argc, char *argv[]);
void system_fh_status (format_data_t form, int argc, char *argv[]);
void system_fh_tunnel_query (format_data_t form, int argc, char *argv[]);
void system_fh_tundst (format_data_t
 form, int argc, char *argv[]);
void system_fh_tunsrc (format_data_t form, int argc, char *argv[]);

void system_fh_ifstat_query (format_data_t form, int argc, char *argv[]);
void system_fh_missing_stat (format_data_t form, int argc, char *argv[]);

_IU_EXTRN (rx_bytes)
_IU_EXTRN (tx_bytes)
_IU_EXTRN (rx_dropped)
_IU_EXTRN (tx_dropped)
_IU_EXTRN (rx_errors)
_IU_EXTRN (tx_errors)
_IU_EXTRN (rx_packets)
_IU_EXTRN (tx_packets)
```

_IU_EXTRN (collisions)

#endif /* IFCONFIG_SYSTEM_BSD_H */

1.512 bind 9.16.48

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man/humanize_number.3bsd
man/stringlist.3bsd
man/timeval.3bsd
src/fmtcheck.c
src/humanize_number.c
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src/strtonum.c
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man/expand_number.3bsd
man/flopen.3bsd
man/getpeereid.3bsd
man/pidfile.3bsd
src/expand_number.c
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src/fparseln.c
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man/readpassphrase.3bsd
man/strlcpy.3bsd
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src/arc4random.c
src/arc4random_linux.h
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
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1.515 qemu 5.2.0

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```
project('bar', 'c', license: 'Apache')

executable('bar', 'bar.c')

license = meson.project_license()[0]
if license != 'Apache'
  error('The license should be Apache, but it is: ' + license)
endif
bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
```

'uaccess.c',
))

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```
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+ } else {
+        x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
      printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
```

```
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
    target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
       M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+  // perform the byte swap
+  s32 temp = reg;
+  reg = (temp & 0xFF000000) >> 24;
+  reg |= (temp & 0xFF0000) >> 8;
+  reg |= (temp & 0xFF00) << 8;
+  reg |= (temp & 0xFF) << 24;
+  return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODE_PRINTF("BSWAP\t");
+   switch (op2) {
+     case 0xc8:
+       DECODE_PRINTF("EAX\n");
+       M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+       break;
+     case 0xc9:
```

```
+       DECODE_PRINTF("ECX\n");
+       M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+       break;
+     case 0xca:
+       DECODE_PRINTF("EDX\n");
+       M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+       break;
+     case 0xcb:
+       DECODE_PRINTF("EBX\n");
+       M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+       break;
+     case 0xcc:
+       DECODE_PRINTF("ESP\n");
+       M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+       break;
+     case 0xcd:
+       DECODE_PRINTF("EBP\n");
+       M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+       break;
+     case 0xce:
+       DECODE_PRINTF("ESI\n");
+       M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+       break;
+     case 0xcf:
+       DECODE_PRINTF("EDI\n");
+       M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+       break;
+    }
+    TRACE_AND_STEP();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
```

```
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-   push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+    if (cond) {
       M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
```

```
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
        }
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
```

```
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val1 = fetch_data_byte(M.x86.R_SI);
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+
            M.x86.R_ECX -= 1;
+          else
+            M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+          if (M.x86.intr & INTR_HALTED)
+            break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+          else
+            M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+          if (M.x86.intr & INTR_HALTED)
+            break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
```

```
   } else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /*
 move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2783,9 +2812,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX = 0;

    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2795,6 +2826,8 @@
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
     }
     M.x86.R_DI += inc;
+     if (M.x86.intr & INTR_HALTED)
+        break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2817,11 +2850,16 @@
     inc = 1;
```

```
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
+         if (M.x86.intr & INTR_HALTED)
+
           break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2859,9 +2897,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX = 0;
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
      }
      M.x86.R_SI += inc;
+      if (M.x86.intr & INTR_HALTED)
+         break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
      inc = 1;
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /*
 REPE  */
-      /* move them until CX is ZERO. */
```

```
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
            break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
            break;          /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
```

```
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
           }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+          else
+            M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
           if (ACCESS_FLAG(F_ZF) == 0)
             break;
+          if (M.x86.intr & INTR_HALTED)
+            break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
           }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+          else
+            M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
           if (ACCESS_FLAG(F_ZF))
             break;         /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+            break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -3238,9 +3300,9 @@
   DECODE_PRINTF("RET\t");
```

```
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
     END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
```

```
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4062,8 +4130,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4085,8 +4156,10 @@
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
       M.x86.R_IP = target;
```

```
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
     M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
```

```
@@ -5013,12 +5093,14 @@
            break;
        case 4:         /* jmp word ptr ... */
            destval = fetch_data_word(destoffset);
+             JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            break;
        case 5:         /* jmp far ptr ... */
            destval = fetch_data_word(destoffset);
            destval2 = fetch_data_word(destoffset + 2);
+             JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
```

```
+       /* in until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                    M.x86.R_ECX : M.x86.R_CX);
-
        while (count--) {
         single_in(size);
         M.x86.R_DI += inc;
         }
       M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* out until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                    M.x86.R_ECX : M.x86.R_CX);
       while (count--) {
         single_out(size);
         M.x86.R_SI += inc;
         }
       M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
       }
       M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
```

```
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/*****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

/*****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/*****************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}
```

```
@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
       printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()      (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS()  0
```

```
+# define DEBUG_TRACEJMP()
      0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                                 \
 if (DEBUG_TRACECALL())                                \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                          \
+# define RETURN_TRACE(u,v,w,x,s)                      \
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                                 \
 if (DEBUG_TRACECALL())                                \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                        \
+   if (DEBUG_TRACEJMPREGS()) \
+     x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+     printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
 #else
 # define CALL_TRACE(u,v,w,x,s)
-#
-define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
 #endif

 #ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE    0x00000100
 #define SYSMODE_PREFIX_DATA     0x00000200
 #define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
 #define SYSMODE_INTR_PENDING    0x10000000
 #define SYSMODE_EXTRN_INTR      0x20000000
```

```
#define SYSMODE_HALTED         0x40000000
@@ -250,7 +253,8 @@
       SYSMODE_SEGOVR_GS     | \
      SYSMODE_SEGOVR_SS     | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                   mode;
   volatile int              intr;   /* mask of pending interrupts */
- int                   debug;
+    volatile int                    debug;
#ifdef DEBUG
- int                   check;
+    int                     check;
   u16                   saved_ip;
   u16                   saved_cs;
   int                   enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
```

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}   /* End of "C" linkage for C++   */
#endif
-
#endif /* __X86EMU_X86EMU_H */
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-- Wolfgang Denk
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John R. Hauser
2018 January 20

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TARGET_ALIGNED_ONLY=y
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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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contribution agreement. Your "Contributed-under" message
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The "TianoCore Contribution Agreement" is included below in
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

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

== Sample Change Description / Commit Message =

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

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

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

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

Patch content inline or attached

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

=== Notes for sample patch email ===

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

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

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
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contribution is
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3. Your "Contributed-under" message explicitly states that the
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4. Submit your code to the TianoCore project using the process
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==========
= Change Description / Commit Message / Patch Email =
==========

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and the "Contributed-under" message.

== Sample Change Description / Commit Message =

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

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

Full-commit-message

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

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

Patch content inline or attached

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

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message

is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

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

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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:
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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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Contributions.txt: TianoCore Contribution Agreement 1.1

```
  ======================
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  ======================

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     use in the source control commit log.
  2. Your commit message must include your "Signed-off-by" signature,
     and "Contributed-under" message.
  3. Your "Contributed-under" message
explicitly states that the
     contribution is made under the terms of the specified
     contribution agreement.  Your "Contributed-under" message
     must include the name of contribution agreement and version.
     For example: Contributed-under: TianoCore Contribution Agreement 1.1
     The "TianoCore Contribution Agreement" is included below in
     this document.
  4. Submit your code to the TianoCore project using the process
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

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

== Sample Change Description / Commit Message =

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

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

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

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

Patch content inline or attached
```

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

=== Notes for sample patch email ===

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

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is

the identifier of the branch the patch applies. This
    identifier should only be provided for branches other than 'edk2/master'.
    For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
    'staging/edk2-test'.
  * "Module" is a short identifier for the affected code or documentation. For
    example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
    'EDK II INF File Format'.
  * "Brief-single-line-summary" is a short summary of the change.
  * The entire first line should be less than ~70 characters.
  * "Full-commit-message" a verbose multiple line comment describing
    the change. Each line should be less than ~70 characters.
  * "Contributed-under" explicitly states that the contribution is
    made under the terms of the contribution agreement. This
    agreement is included below in this document.
  * "Signed-off-by" is the contributor's signature identifying them
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3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
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```
================================================
= Change Description / Commit Message / Patch Email =
================================================

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Full-commit-message

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John R. Hauser
2018 January 20

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{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen,
 "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL
 },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil,
 "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk,
 "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid,
 "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending,
 "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
NULL, NULL },
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John R. Hauser
2018 January 20

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#define UV_IO_PRIVATE_PLATFORM_FIELDS \
int rcount; \
int wcount; \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
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1.521 init-system-helpers 1.60

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1.522 abseil-cpp 20200923

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1.523 c-ares 1.16.0

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)

```
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
```

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*
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1.526 xfsprogs 5.10.0

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1.527 cdrtools 3.01a31

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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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Appendix: How to Apply These Terms to Your New Programs

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the Lesser General Public License.

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

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

The precise terms and conditions for copying, distribution and

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"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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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:

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.

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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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.

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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

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

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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.

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1.529 gcc-sanitizers 10.3.0

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#ifndef __VTV_H__
#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
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif
```

#endif /* __VTV_H__ */

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

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
==========

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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler
 labels. If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
  to define a global common symbol. */

#define

```
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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

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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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1.530 libpng 1.6.37

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author's reputation will not be affected by problems that might be
introduced by others.

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

Most GNU software, including some libraries, is covered by the

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

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

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

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

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

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

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

be combined with the library in order
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another language. (Hereinafter, translation is
included without limitation in the term "modification".)

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

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

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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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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

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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.

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.

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that

uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

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

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

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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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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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ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

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

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1. Source Code.

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally
available free
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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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

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

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.

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

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the

machine-readable Corresponding Source under the terms of this License,
in one of these ways:

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

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

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
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
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Corresponding Source. Regardless of what server hosts the
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charge under subsection 6d.

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included in conveying the object code work.

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

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

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

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
```

```
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.535 libusb 1.0.24

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1.536 python3-asn1crypto 1.4.0

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1.537 python-setuptools 54.1.1

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1.538 python-requests 2.25.1

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1.539 inotify-tools 3.20.11.0

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1.541 python3-coverage 5.5

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Other contributions, including writing code, updating docs, and submitting useful bug reports, have been made by:

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* Markus Kuhn -- 2007-05-26 (Unicode 5.0)
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/*
 * imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
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/*
* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
UCSD
R. Canetti
IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Code
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It was downloaded from http://ccache.samba.org/ftp/ccache/

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Upstream Author: Andrew Tridgell <tridge@samba.org>

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Historically, the following people contributed to early versions of SWIG.
Peter Lomdahl, Brad Holian, Shujia Zhou, Niels Jensen, and Tim Germann at
Los Alamos National Laboratory were the first users. Patrick Tullmann at the University of Utah suggested the idea of automatic documentation generation. John Schmidt and Kurtis Bleeker at the University of Utah tested out the early versions. Chris Johnson supported SWIG's developed at the University of Utah. John Buckman, Larry Virden, and Tom Schwaller provided valuable input on the first releases and improving the portability of SWIG. David Fletcher and Gary Holt have provided a great deal of input on improving SWIG's Perl5 implementation. Kevin Butler contributed the first Windows NT port.

Early bug reports and patches:
Adam Hupp, Arthur Smyles, Brad Clements, Brett Williams, Buck Hodges, Burkhard Kloss, Chia-Liang Kao, Craig Files, Dennis Marsa, Dieter Baron, Drake Diedrich, Fleur Diana Dragan, Gary Pennington, Geoffrey Hort, Gerald Williams, Greg Anderson, Greg Kochanski, Greg Troxel, Henry Rowley, Irina Kotlova, Israel Taller, James Bailey, Jim Fulton, Joel Reed, Jon Travis, Junio
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Version 3, 29 June 2007

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1.554 gobject-introspection 1.66.1

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CMAKE_INSTALL_DATADIR='share'
CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/Usr'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64|lib/arch)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/share/doc/Usr'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/(lib|lib64|lib/arch)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/usr/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run'
CMAKE_INSTALL_FULL_MANDIR='/usr/man'
CMAKE_INSTALL_FULL_SBINDIR='/usr/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/usr/com'
CMAKE_INSTALL_FULL_SYSCONFDIR='/etc'$
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hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator !

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CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/Opt'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/opt/Opt/bin'
CMAKE_INSTALL_FULL_DATADIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DOCDIR='/opt/Opt/share/doc/Opt'
CMAKE_INSTALL_FULL_INCLUDEDIR='/opt/Opt/include'
CMAKE_INSTALL_FULL_INFODIR='/opt/Opt/info'
CMAKE_INSTALL_FULL_LIBDIR='/opt/Opt/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/opt/Opt/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/opt/Opt/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var/opt/Opt'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run/opt/Opt'
CMAKE_INSTALL_FULL_MANDIR='/opt/Opt/man'
CMAKE_INSTALL_FULL_SBINDIR='/opt/Opt/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/opt/Opt/com'
CMAKE_INSTALL_FULL_SYSCONFDIR='/etc/opt/Opt'$

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==========

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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*/

#ifndef UV_BSD_H

```
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                   \
 uv__io_t event_watcher;                                              \

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                 \
 int rcount;                                                          \
 int wcount;                                                          \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
```

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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        madler@alumni.caltech.edu
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 Deprecation warning
+
CMake Warning \(dev\) at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:3 \(message\):
 Author warning message
This warning is for project developers\. Use -Wno-dev to suppress it\.
+
CMake Warning at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:4 \(message\):
 Warning message
+
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CMAKE_INSTALL_DATADIR='usr/share'
CMAKE_INSTALL_DATAROOTDIR='usr/share'
CMAKE_INSTALL_DOCDIR='usr/share/doc/Root'
CMAKE_INSTALL_INCLUDEDIR='usr/include'
CMAKE_INSTALL_INFODIR='usr/info'
CMAKE_INSTALL_LIBDIR='usr/(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='usr/libexec'
CMAKE_INSTALL_LOCALEDIR='usr/share/locale'

CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='usr/man'
CMAKE_INSTALL_SBINDIR='usr/sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='usr/com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/share/doc/Root'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/usr/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run'
CMAKE_INSTALL_FULL_MANDIR='/usr/man'
CMAKE_INSTALL_FULL_SBINDIR='/usr/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/usr/com'
CMAKE_INSTALL_FULL_SYSCONFDIR='/etc'$
CMake - Cross Platform Makefile Generator
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  as part of the Insight Segmentation and Registration
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  Visualization Initiative.

* National Alliance for Medical Image Computing (NAMIC) is funded by the
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1.558 python3-git 3.1.14

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1.559 dialog 1.3-20210319

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1.561 linux-libc-headers 5.10

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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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1.562 automake 1.16.3

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

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@heading TERMS AND CONDITIONS

@enumerate 0
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means a major essential component
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6b.

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@c man end

1.569 linux-firmware 20220310

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WIS GO7007SB Public Linux Driver

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this
will be
linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this
link does not exist, an extra parameter will need to be passed to the
`make` command.

All vendor-built kernels should already be configured properly. However,
for custom-built kernels, the following options need to be enabled in the
kernel as built-in or modules:

CONFIG_HOTPLUG - Support for hot-pluggable devices
CONFIG_MODULES - Enable loadable module support
CONFIG_KMOD - Automatic kernel module loading
CONFIG_FW_LOADER - Hotplug firmware loading support
CONFIG_I2C - I2C support
CONFIG_VIDEO_DEV - Video For Linux
CONFIG_SOUND - Sound card support
CONFIG_SND - Advanced Linux Sound Architecture
CONFIG_USB - Support for Host-side USB
CONFIG_USB_DEVICEFS - USB device filesystem
CONFIG_USB_EHCI_HCD - EHCI
HCD (USB 2.0) support

Additionally, to use the example application, the following options need to
be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS - OSS Mixer API
CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed.
These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>.
Hotplugging is used for loading firmware into the Cypruss EZ-USB chip using
fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules
will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the
currently-running kernel, or if the module should be built for a kernel
other than the currently-running kernel, an additional

parameter will need
to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be
installed by running:

```
$ make install
```

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra"
and the firmware files will be placed in the appropriate hotplug firmware
directory, usually /lib/firmware. In addition, USB maps and scripts will
be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB
control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional
configuration to correctly select the appropriate TV frequency band and
audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip
this section.

The wide variety of PAL TV systems used in Europe requires that additional
information about
the local TV standards be passed to the driver in order
to properly tune TV channels. The two necessary parameters are (a) the PAL
TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver
from applications. However, in some cases, the application only specifies
that the driver should use PAL but not the specific information about the
appropriate TV band. To work around this issue, the correct TV band may be
specified in the "force_band" parameter to the wis-sony-tuner module:

TV band	force_band
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force_band" parameter is specified, the driver will ignore any TV
band specified by applications and will always use the band provided in the

module parameter.

The other parameter that can be specified is the audio subchannel format. There are
several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from
Video4Linux2 devices with
only compressed formats supported, the new driver
should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR.
This will be captured to a file for testing the driver. If an input source
is unavailable, a test file can still be captured, but the video will be
black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the
hardware and will record video and audio to an AVI file for a specified
number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error
messages produced by gorecord and recorded in the system log (usually in
/var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available
devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The
V4L2 device implemented by the driver provides a standard compressed
format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not
  be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that
  expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only.
  Program Stream (PS), Transport Stream (TS) and Packetized Elementary
  Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while
  the encoder is active.

* The audio capture device only functions when the video encoder is
actively capturing video. Attempts to read from the audio device when
the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel
16-bit
little-endian PCM, delivered through the ALSA system. No audio
compression is implemented in the hardware. ALSA may convert to other
uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard
features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl
with a pointer to a struct go7007_comp_params. If the driver is not
set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct
go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a
pointer to this structure. The driver will return the current
parameters with any necessary changes to conform to the limitations of
the hardware or current compression mode. Any
or all fields can be set
to zero to request a reasonable default value. If the driver is not
set to MPEG format, the EINVAL error code will be returned. When I/O
is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32 gop_size — The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

__u32 max_b_frames — The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)

enum go7007_aspect_ratio aspect_ratio — The aspect ratio to be encoded in the meta-data of the compressed format.

Choices are:

GO7007_ASPECT_RATIO_1_1
GO7007_ASPECT_RATIO_4_3_NTSC
GO7007_ASPECT_RATIO_4_3_PAL
GO7007_ASPECT_RATIO_16_9_NTSC
GO7007_ASPECT_RATIO_16_9_PAL

__u32 flags — Bit-wise OR of control flags (below)

Flags in struct go7007_comp_params:

GO7007_COMP_CLOSED_GOP — Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

GO7007_COMP_OMIT_SEQ_HEADER — Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard mpeg_video_standard — The MPEG video standard in which to compress the video.

Choices are:
GO7007_MPEG_VIDEO_MPEG1

GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4

__u32 flags — Bit-wise OR of control flags (below)

__u32 pali — The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:
GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1

GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and bitrate control settings to comply

with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option
is enabled in the kernel
configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices
(xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96,
128, 160, 192, 256, 320, and 384 do not work in NTSC mode.
All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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*
* $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
*/
File: LLM_sp_sha2.c

/*
 * FILE: sha2.h
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*/
File: LLM_sp_sha2.h

==========

2.

/* utility to create the register check tables
* this includes inlined list.h safe for userspace.
*
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*
* Authors:
* Jerome
 Glisse
* Dave Airlie
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*/
File: comm_lib.h

==========

3.

/* crypto/aes/aes.h -*- mode:C; c-file-style: "eay" -*- */
/* ==
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* ====================================================================
*
```

*/
File Name list: aes.h, aes_locl.h

==========

4.

/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*- */
/**
* 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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*/
File: aes_core.c

==========

5.

/*==========

EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when who what, where, why

```
--------  ---     -------------------------------------------------------
11/12/04   rv      changes to correct LINT errors
02/02/04   rwh     Small mods to open
 source.

=====================================================================================*/

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  Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

*/
File: aes.h

/*=====================================================================================

                    EDIT HISTORY FOR FILE

 $Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $
 $DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when       who     what, where, why
--------   ---     -------------------------------------------------------
11/12/04   rv      changes to correct LINT errors
02/02/04
   rwh     Small mods to open source.

=====================================================================================*/
/*lint -e146 -e303 */
/* 146: Assuming a binary constant */
/* 303: String too long (try +macros) */


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*/
File: aes_tab.h

==========
6.
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#
#
#
==========
File: Conftest.py

==========
7.
==========
/ ***
*
* Fowler/Noll/Vo- hash
*
* The basis of this hash algorithm was taken from an idea sent
* as reviewer comments to the IEEE POSIX P1003.2 committee by:
*
*   Phong Vo (http://www.research.att.com/info/kpv/)
*   Glenn Fowler (http://www.research.att.com/~gsf/)

*
* In a subsequent ballot round:
*
*   Landon Curt Noll (http://www.isthe.com/chongo/)
*
* improved on their algorithm. Some people tried this hash
* and found that it worked rather well. In an EMail message
* to Landon, they named it the ``Fowler/Noll/Vo'' or FNV hash.
*
* FNV hashes are designed to be fast while maintaining a low
* collision rate. The FNV speed allows one to quickly hash
 lots
* of data while maintaining a reasonable collision rate. See:
*
*   http://www.isthe.com/chongo/tech/comp/fnv/index.html
*
* for more details as well as other forms of the FNV hash.
*
*
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*
* By:
* chongo <Landon Curt Noll> /\oo/\
*   http://www.isthe.com/chongo/
*
* Share and Enjoy! :-)
*/
File: fm_fnv_hash.h, fm_fnv_hash.c

==========
8.
==========

/*
 * $Header: //source/qcom/qct/core/api/kernel/main/latest/libstd/stringl/stringl.h#13 $
* $DateTime: 2013/07/24 11:35:54 $
*/

/* $OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp $ */
/* $NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp $ */

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*
* @(#)string.h 5.10 (Berkeley) 3/9/91
*/
File: stringl.h

==========
9.
==========
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*
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/romexport/AR6320/hw.3/include/usb.h

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*
* This file defines the cryptographic functions that need to be implemented
* for wpa_supplicant and hostapd. When TLS is not used, internal
* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
* defined here.
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/crypto.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/offloads/l2/bpf/bpf_filter.c
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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/config.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/suppl_auth_api.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/wpa.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/wpa_i.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/sha256.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/mywpa_ft.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/sha256.c

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/mywpa_ft.c

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/mywpa_common.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/include/md5_api.h

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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/romexport/AR6320/hw.3/include/aes_wrap

.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/romexport/AR6320/hw.3/include/sha1.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/romexport/AR6320/hw.3/include/seccommon.h

/*
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*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^32 term is "implied"; the LSB is the
* X^31 term, etc. The X^0 term (usually shown as "+1") results in

* the MSB being 1
*
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each
low-bit to hight-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly
*
* The feedback terms table consists of 256, 32-bit entries. Notes
*
* The table can be generated at runtime if desired; code to do so
* is shown later. It might not be obvious, but the feedback
* terms simply represent the results of eight shift/xor opera
* tions for all combinations of data and CRC register values
*
* The values must be right-shifted by eight bits by the "updcrc
* logic; the shift must be unsigned (bring in zeroes). On some
* hardware you could probably optimize the shift in assembler by
* using byte-swap instructions
* polynomial $edb88320
*
*
* CRC32 code derived from work by Gary S. Brown.
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/2.0/src/mgmt_txrx/ieee_crc32.c

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//  @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1
 $
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p4://qctp411.qualcomm.com/components/rel/wlanfw_cmn.cnss/1.0.0/include/queue.h


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// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
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*
*      @(#)if_llc.h    8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/if_llc.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/if_ethersubr.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/patch/AR6320/v3/sha1_patch.c

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/mywpa_common.c

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/*original files: ese_cckm.c and part of wpa_common.c in proprietary patch
* of open source supplicant */
p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/mywpa_cckm.c

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// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
//

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*
* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/if_llc.h

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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*
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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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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/misc/crypto/aes.c

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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC
*
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/misc/crypto/aes_wrap.c

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p4://qctp411.qualcomm.com/components/rel/wlanfw_cmn.cnss/1.0.0/fw_interface/include/wmi_version_whitelist.c

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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/misc/crypto/md5.c#3 $
//
// 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.
//
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/misc/crypto/md5.c

/*===
 @file secrsa_encryption.c

  This file provides RSA PKCS #1 v1.5 encryption/decryption implementation.
 ===

                    EDIT HISTORY FOR FILE
 $Header:
//components/dev/wlanfw.cnss/1.0.1/dennis.rome_emu_es2_rel_fw/cnss_proc/wlan/fw/target/src/misc/binsig/rsa.c#
2 $
 $DateTime: 2013/10/21 08:09:59 $
 $Author: changhon $

 when   who   what, where, why
 --------   ---   --
 04/11/11   qxu   initial version

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 ===*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/misc/binsig/rsa.c

/*
 ===
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/cil.h $

* $Revision: #3 $
* $Date: 2013/08/06 $
* $Change: 2161544 $
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/include/cil.h

/* ==
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/dev.h $
* $Revision: #3 $
* $Date: 2013/08/06 $
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/* ==
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/pcd.h $
* $Revision: #3 $
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* $Change: 2161544 $
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/include/pcd.h

/* ==
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/soc/usbhwcore/drv/snps/cil.c $
* $Revision: #3 $
* $Date: 2013/08/06 $
* $Change: 2161544 $
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* == */

/** @file
*
* The Core Interface Layer provides basic services for accessing and

* managing the DWC_usb3 hardware. These services are used by both the
* Peripheral Controller Driver and the On The Go Driver.
*
* The CIL manages the memory map for the core so that the PCD and OTG drivers
* don't have to do this separately. The CIL also performs basic services
* that are not specific to either the Device or OTG modes of operation.
* These services include all functionality that requires specific
* knowledge of the CSR layout or the DMA descriptor (TRB) layout. Also
* included are services for invoking each of the commands provided by
* the DGCMD and DEPCMD registers (see
the "Control and Status Registers"
* chapter of the USB3 controller databook for details).
*
* The Core Interface Layer has the following requirements:
* - Provides basic controller operations.
* - Minimal use of OS services.
* - The OS services used will be abstracted by using inline functions
*   or macros.
*
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/soc/usbhwcore/drv/snps/cil.c

/* ==
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/soc/usbhwcore/drv/snps/pcd_intr.c $
* $Revision: #3 $
* $Date: 2013/08/06 $
* $Change: 2161544 $
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* == */

/** @file
* This file contains the implementation of the PCD Interrupt handlers.
*
* The PCD handles the device interrupts. Many conditions can cause a
* device interrupt. When an interrupt occurs, the device interrupt
* service routine determines the cause of the interrupt and
* dispatches handling to the appropriate routine. These interrupt
* handling routines are described below.
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/soc/usbhwcore/drv/snps/pcd_intr.c

/* ==
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/os_dev.h $
* $Revision: #3 $
* $Date: 2013/08/06 $
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/* ==
 * $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/soc/usbhwcore/drv/snps/cil_intr.c $
* $Revision: #3 $
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* == */

/** @file
*
 * The Core Interface Layer provides basic services for accessing and
* managing the DWC_usb3 hardware. These services are used by both the
* Peripheral Controller Driver and the On The Go Driver.
*
* This file contains the common interrupt handling functions.
*/

p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/soc/usbhwcore/drv/snps/cil_intr.c

```
/* ========================================================================
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/soc/usbhwcore/drv/snps/pcd.c $
* $Revision: #3 $
* $Date: 2013/08/06 $
* $Change: 2161544 $
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* ========================================================================== */

/** @file
* This file implements the Peripheral Controller Driver.
*
* The Peripheral Controller Driver (PCD) is responsible for translating
* requests from the Function Driver into the appropriate actions on the
* DWC_usb3 controller. It isolates the Function Driver from the specifics
* of the controller by providing an API to the Function Driver.
*
* The Peripheral Controller Driver for Linux will implement the Gadget API,
* so that the existing Gadget drivers can be used. (Gadget Driver is the
* Linux terminology for a Function Driver.)
*
```

* The Linux Gadget API is defined in the header file
* <code><linux/usb/gadget.h></code>.
The USB EP operations API is defined
* in the structure <code>usb_ep_ops</code> and the USB Controller API is
* defined in the structure <code>usb_gadget_ops</code>.
*
* An important function of the PCD is managing interrupts generated by the
* DWC_usb3 controller. The implementation of the DWC_usb3 device mode
* interrupt service routines is in pcd_intr.c.
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/soc/usbhwcore/drv/snps/pcd.c

/* ==
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/usb3_hw.h $
* $Revision: #3 $
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/include/usb3_hw.h

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//

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 *
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 * - One-Key CBC MAC (OMAC1) hash with AES-128
 * - AES-128 CTR mode encryption
 * - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC
 *
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 *
 * This file defines the cryptographic functions that need to be implemented
 * for wpa_supplicant and hostapd. When TLS
 is not used, internal
 * implementation of MD5, SHA1, and AES is used and no external libraries are
 * required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
 * crypto library used by the TLS implementation is expected to be used for
 * non-TLS needs, too, in order to save space by not implementing these
 * functions twice.
 *
 * Wrapper code for using each crypto library is in its own file (crypto*.c)
 * and one of these files is build and linked in to provide the functions
 * defined here.
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```

==========

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atomic_ops.h

```
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/*
* Author: Malcolm
 Purvis <malcolmp@ok-labs.com>
* Author: Carlos Dyonisio <medaglia@ok-labs.com>
*/
==========

File: qurt_atomic_ops.h

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/*
* Author: Malcolm Purvis <malcolmp@ok-labs.com>
*
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==========

File: htt_common.h

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File: htt_deps.h

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File: wdi_ipa.h

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File: wlan_defs.h

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File:
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==========
File: ol_fw_tx_dbg.h

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==========

File: queue.h

```
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==========

File: stail_queue.h

```
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//
// @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
//
==========
File:
targaddrs.h

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File: aes_gcm.h

*/
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* Galois/Counter Mode (GCM) and GMAC with AES
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File: aes_wrap.h

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```
*/

/*
* AES-based functions
*
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* -
 AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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==========

File: sha2.h

```
/*
* FILE:    sha2.h
* AUTHOR:  Aaron D. Gifford - http://www.aarongifford.com/
 *
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```

*
* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 $
*/
==
File: wal_dfs.h

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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_ethersubr.h#3 $
//

==========

File: wal_dfs.c

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File: ieee_crc32.c

/*

```
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*  code or tables extracted from it, as desired without
 restriction.
*
*  First, the polynomial itself and its table of feedback terms.  The
*  polynomial is
*  X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
*  Note that we take it "backwards" and put the highest-order term in
*  the lowest-order bit.  The X^32 term is "implied"; the LSB is the
*  X^31 term, etc.  The X^0 term (usually shown as "+1") results in
*  the MSB being 1
*
*  Note that the usual hardware shift register implementation, which
*  is what we're using (we're merely optimizing it by doing eight-bit
*  chunks at a time) shifts bits into the lowest-order term.  In our
*  implementation, that means shifting towards the right.  Why do we
*  do it this way?  Because the calculated CRC must be transmitted in
*  order from highest-order term to lowest-order term.  UARTs transmit
*  characters in order from LSB to MSB.  By storing the CRC this way
*  we hand it to the UART in the order low-byte to high-byte; the UART
*  sends each low-bit
 to hight-bit; and the result is transmission bit
*  by bit from highest- to lowest-order term without requiring any bit
*  shuffling on our part.  Reception works similarly
*
*  The feedback terms table consists of 256, 32-bit entries.  Notes
*
*      The table can be generated at runtime if desired; code to do so
*      is shown later.  It might not be obvious, but the feedback
*      terms simply represent the results of eight shift/xor opera
*      tions for all combinations of data and CRC register values
*
*      The values must be right-shifted by eight bits by the "updcrc
*      logic; the shift must be unsigned (bring in zeroes).  On some
*      hardware you could probably optimize the shift in assembler by
*      using byte-swap instructions
*      polynomial $edb88320
*
*
* CRC32 code derived from work by Gary S. Brown.
*/
```

```
================================================================================
File: aes.c

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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*
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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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==========

File: aes_gcm.c

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* Galois/Counter Mode (GCM) and GMAC with AES
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==========

File: aes_wrap.c

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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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* wpa_supplicant/hostapd / common helper functions, etc.
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==========
File: md5.c

//
//
 $Id: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/src/misc/crypto/md5.c#1 $
//
// 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.
//
==========
File: sha1.c
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==========
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File: phyUtilsStrlcpy.c

/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp $ */

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// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
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*
* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
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File: qvit_init_api.h
```

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==========

File: sha2.c

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* FILE: sha2.c
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File: wlan_p2p_listen_offload_int.c

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* required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
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*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
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==========

File: sha512-internal.c

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* SHA-512 hash implementation and interface functions
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==========

File:
wmi_vendor.h

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

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The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

//
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//
//
/*
* This code implements the MD5 message-digest algorithm.
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*
* 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.
*/


```
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/*-
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*  code or tables extracted from it, as desired without restriction.
*
*  First, the polynomial itself and its table of feedback terms.  The
*  polynomial is
*  X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
*  Note that we take it "backwards" and put the highest-order term in
*  the lowest-order bit.  The X^32 term is "implied"; the LSB is the
*  X^31 term, etc.  The X^0 term (usually shown as "+1") results in
*  the MSB being 1
*
*  Note that the usual hardware shift register implementation, which
```

```
*  is what we're using (we're merely optimizing it by doing eight-bit
*  chunks at a time) shifts bits into the lowest-order term.  In our
*  implementation, that means shifting towards the right.  Why do we
*  do it this way?  Because the calculated CRC must be transmitted in
*  order from highest-order
 term to lowest-order term.  UARTs transmit
*  characters in order from LSB to MSB.  By storing the CRC this way
*  we hand it to the UART in the order low-byte to high-byte; the UART
*  sends each low-bit to hight-bit; and the result is transmission bit
*  by bit from highest- to lowest-order term without requiring any bit
*  shuffling on our part.  Reception works similarly
*
*  The feedback terms table consists of 256, 32-bit entries.  Notes
*
*      The table can be generated at runtime if desired; code to do so
*      is shown later.  It might not be obvious, but the feedback
*      terms simply represent the results of eight shift/xor opera
*      tions for all combinations of data and CRC register values
*
*      The values must be right-shifted by eight bits by the "updcrc
*      logic; the shift must be unsigned (bring in zeroes).  On some
*      hardware you could probably optimize the shift in assembler by
*      using byte-swap instructions
*      polynomial
 $edb88320
*
```

```
/*
  The AES algorithm Rijndael implemented for block and key sizes of 128,
  192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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  about the use to which it is being put. I am grateful to Frank Yellin
  for some ideas that are used in this implementation.

  Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.
```

```
/*
* hash_32 - 32 bit Fowler/Noll/Vo hash code
```

*
* Fowler/Noll/Vo hash
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*

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* sha1.c
*
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*
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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128

* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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/*
* hmac_sha1.c
*
* Version
 1.0.0
*
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Firmware provided as part of an XC5000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
on July 1, 2009.

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*
* @(#)if_llc.h   8.1 (Berkeley) 6/10/93
 * $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
*/

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wlan/protocol/src/include/if_llc.h#1

==========
==========
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wlan/protocol/include/if_ethersubr.h#1

==========
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// marcus.geelnard at home.se
//

wlan/protocol/support/lz77/lz.h#1
wlan/protocol/support/lz77/lz.c#1

==========

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wlan/mac_core/tests/serflash/flashprog/uncompr.c#1

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//
//  @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
//

wlan/include/queue.h#1

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================================================
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* SHA1 hash implementation and interface functions
* Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>
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wlan/mac_core/include/sha1.h
wlan/mac_core/romexport/AR900B/hw.1/include/sha1.h
wlan/mac_core/romexport/AR900B/hw.2/include/sha1.h

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==========
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/*
* FILE: sha2.h
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* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 $
*/

wlan/mac_core/romexport/AR900B/hw.1/include/sha2.h
wlan/mac_core/romexport/AR900B/hw.2/include/sha2.h

==========
==========

/*
 * AES-based functions
*
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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wlan/mac_core/include/aes_wrap.h
wlan/mac_core/romexport/AR900B/hw.1/include/aes_wrap.h
wlan/mac_core/romexport/AR900B/hw.2/include/aes_wrap.h

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==========
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* MD5 hash implementation and interface functions
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*/

wlan/mac_core/romexport/AR900B/hw.1/include/md5.h
wlan/mac_core/romexport/AR900B/hw.2/include/md5.h

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==========
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/*
 * Common helper macros, etc.
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*/

wlan/mac_core/romexport/AR900B/hw.1/include/seccommon.h
wlan/mac_core/romexport/AR900B/hw.2/include/seccommon.h

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*/

/* Modified by Synopsys, Inc, 12/12/2007 */

wlan/mac_core/include/usb.h
wlan/mac_core/romexport/AR900B/hw.1/include/usb.h
wlan/mac_core/romexport/AR900B/hw.2/include/usb.h

==========
==========

/*
 ==
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* == */

wlan/mac_core/include/cil.h
wlan/mac_core/romexport/AR900B/hw.1/include/cil.h
wlan/mac_core/romexport/AR900B/hw.2/include/cil.h
wlan/mac_core/include/dev.h
wlan/mac_core/romexport/AR900B/hw.1/include/dev.h
wlan/mac_core/romexport/AR900B/hw.2/include/dev.h
wlan/mac_core/include/os_dev.h
wlan/mac_core/romexport/AR900B/hw.1/include/os_dev.h
wlan/mac_core/romexport/AR900B/hw.2/include/os_dev.h
wlan/mac_core/include/usb3_hw.h
wlan/mac_core/romexport/AR900B/hw.1/include/usb3_hw.h
wlan/mac_core/romexport/AR900B/hw.2/include/usb3_hw.h
wlan/mac_core/include/pcd.h
wlan/mac_core/romexport/AR900B/hw.1/include/pcd.h
wlan/mac_core/romexport/AR900B/hw.2/include/pcd.h

==========
==========

/*
 * $Header: //source/qcom/qct/core/api/kernel/main/latest/libstd/stringl/stringl.h#13 $
* $DateTime: 2013/07/24 11:35:54 $
*/

/* $OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp $ */
/* $NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp $ */

/*-

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*  @(#)string.h    5.10 (Berkeley) 3/9/91
*/

wlan/protocol/support/bin2srec/include/stringl/stringl.h

================================================================================
================================================

/*
*  $Header: //source/qcom/qct/core/kernel/libstd/main/latest/src/strlcpy.c#1 $
*  $DateTime: 2011/01/07 17:50:19 $
*/

/*  $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert
 Exp $    */

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wlan/protocol/support/bin2srec/strlcpy.c

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**********/
agere_sta_fw.bin -- 9.48 Hermes I
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(Module
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Hermes 1/2/2.5 Wireless MAC devices.

Hope this helps.

Sincerely,

Viren Pathare
Intellectual Property Licensing Manager

Agere

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Fast discrete
Fourier and cosine transforms and inverses
author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier
routines of the same names from the NETLIB bihar and fftpack
fortran libraries developed by Paul N. Swarztrauber at the National
Center for Atmospheric Research in Boulder, CO USA. They have been
reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier
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well. The C routines here produce output exactly equivalent to the
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that (like the original fortran), these routines can work on
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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares
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*
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* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
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*
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/*
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 *
 * First, the polynomial itself and its table of feedback terms. The
 * polynomial is

 * X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
 *
 * Note that we take it "backwards" and put the highest-order term in
 * the lowest-order bit. The X^32 term is "implied"; the LSB is the
 * X^31 term, etc. The X^0 term (usually shown as "+1") results in
 * the MSB being 1
 *
 * Note that the usual hardware shift register implementation, which

```
 *  is what we're using (we're merely optimizing it by doing eight-bit
 *  chunks at a time) shifts bits into the lowest-order term.  In our
 *  implementation, that means shifting towards the right.  Why do we
 *  do it this way?  Because the
calculated CRC must be transmitted in
 *  order from highest-order term to lowest-order term.  UARTs transmit
 *  characters in order from LSB to MSB.  By storing the CRC this way
 *  we hand it to the UART in the order low-byte to high-byte; the UART
 *  sends each low-bit to hight-bit; and the result is transmission bit
 *  by bit from highest- to lowest-order term without requiring any bit
 *  shuffling on our part.  Reception works similarly
 *
 *  The feedback terms table consists of 256, 32-bit entries.  Notes
 *
 *      The table can be generated at runtime if desired; code to do so
 *      is shown later.  It might not be obvious, but the feedback
 *      terms simply represent the results of eight
shift/xor opera
 *      tions for all combinations of data and CRC register values
 *
 *      The values must be right-shifted by eight bits by the "updcrc
 *      logic; the shift must be unsigned (bring in zeroes).  On some
 *      hardware you could probably optimize the shift in assembler by
 *      using byte-swap instructions
 *      polynomial $edb88320
 *
 *
 * CRC32 code derived from work by Gary S. Brown.
 */

--------------------

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**
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1.570 libtool 2.4.6

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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the work with the complete corresponding
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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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/* 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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*
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.b'\\"\tAdded
 note on F_SETFL and O_DIRECT'
.b'\\"\tComplete rewrite + expansion of material on file locking'
.b'\\"\tIncorporated description of F_NOTIFY, drawing on'
.b'\\"\t\tStephen Rothwell\'s notes in Documentation/dnotify.txt.'

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.b'\\"\tAdded description of F_SETLEASE and F_GETLEASE'
.b'\\" Corrected and polished, aeb, 020527.'
.b'\\" Modified 2004-03-03 by Michael Kerrisk <mtk.manpages@gmail.com>'
.b'\\"     Modified description of file leases: fixed some errors of detail'
.b'\\"     Replaced the term "lease contestant" by "lease breaker"'
.b'\\" Modified, 27 May 2004, Michael Kerrisk <mtk.manpages@gmail.com>'
.b'\\"     Added notes on capability requirements'
.b'\\" Modified 2004-12-08, added O_NOATIME after note from Martin Pool'
.b'\\" 2004-12-10, mtk, noted F_GETOWN bug after suggestion from aeb.'
.b'\\" 2005-04-08 Jamie Lokier <jamie@shareable.org>, mtk'
.b'\\"\tDescribed behavior of F_SETOWN/F_SETSIG in'
.b'\\"\tmultithreaded processes, and generally cleaned'
.b'\\"\tup the discussion of
 F_SETOWN.'
.b'\\" 2005-05-20, Johannes Nicolai <johannes.nicolai@hpi.uni-potsdam.de>,'
.b'\\"\tmtk: Noted F_SETOWN bug for socket file descriptor in Linux 2.4'
.b'\\"\tand earlier.  Added text on permissions required to send signal.'
.b'\\" 2009-09-30, Michael Kerrisk'
.b'\\"     Note obsolete F_SETOWN behavior with threads.'
.b'\\"     Document F_SETOWN_EX and F_GETOWN_EX'
.b'\\" 2010-06-17, Michael Kerrisk'
.b'\\"\tDocument F_SETPIPE_SZ and F_GETPIPE_SZ.'
.b'\\" 2014-07-08, David Herrmann <dh.herrmann@gmail.com>'
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.b'\\" 2017-06-26, Jens Axboe <axboe@kernel.dk>'
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.b'\\" .BR open "(2), " dup "(2), " dup2 "(2), or " fcntl ().)'
.b'\\" FIXME . Review progress into POSIX'
.b'\\" http://austingroupbugs.net/view.php?id=768'
.b'\\"
 commit 57b65325fe34ec4c917bc4e555144b4a94d9e1f7'
.b'\\"'
.b'\\"'
.b'\\" commit ef1820f9be27b6ad158f433ab38002ab8131db4d'
.b'\\"'
.b'\\" The following appears to be rubbish.  It doesn\'t seem to'
.b'\\" be true according to the kernel source, and I can write'
.b'\\" a program that gets a terminal-generated SIGIO even though'
.b'\\" it is not the foreground process group of the terminal.'
.b'\\" -- MTK, 8 Apr 05'
.b'\\"'
.b'\\" If the file descriptor'
.b'\\" .I fd'
```

```
.b'\\" refers to a terminal device, then SIGIO'
.b'\\" signals are sent to the foreground process group of the terminal.'
.b'\\" The relevant place in the (2.6) kernel source is the'
.b'\\" \'switch\' in fs/fcntl.c::send_sigio_to_task() -- MTK, Apr 2005'
.b'\\" send_sigurg()/send_sigurg_to_task() bypasses'
.b'\\" kill_fasync()/send_sigio()/send_sigio_to_task()'
.b'\\" to directly call send_group_sig_info()'
.b'\\"\t-- MTK, Apr 2005 (kernel 2.6.11)'
.b'\\"'
.b'\\" The following was true only up until 2.6.11:'
.b'\\"'
.b'\\"
 Additionally, passing a nonzero value to'
.b'\\" .B F_SETSIG'
.b'\\" changes the signal recipient from a whole process to a specific thread'
.b'\\" within a process.'
.b'\\" See the description of'
.b'\\" .B F_SETOWN'
.b'\\" for more details.'
.b'\\" See fs/fcntl.c::send_sigio_to_task() (2.4/2.6) sources -- MTK, Apr 05'
.b'\\" The following became true in kernel 2.6.10:'
.b'\\" See the man-pages-2.09 Changelog for further info.'
.b'\\" The following does seem a poor API-design choice...'
.b'\\"'
.b'\\" One or more other seals are typically used with F_SEAL_WRITE'
.b'\\" because, given a file with the F_SEAL_WRITE seal set, then,'
.b'\\" while it would no longer be possible to (say) write zeros into'
.b'\\" the last 100 bytes of a file, it would still be possible'
.b'\\" to (say) shrink the file by 100 bytes using ftruncate(), and'
.b'\\" then increase the file size by 100 bytes, which would have'
.b'\\" the effect of replacing the last hundred bytes by zeros.'
.b'\\"'
.b'\\"'
.b'\\"
 .BR _BSD_SOURCE ,'
.b'\\" or'
.b'\\" .PP'
.b'\\" SVr4 documents additional EIO, ENOLINK and EOVERFLOW error conditions.'
.b'\\" FIXME . Once glibc adds support, add a note about FTM requirements'
.b'\\"'
.b'\\"'
.b'\\" e.g., Solaris 8 documents this field in fcntl(2), and Irix 6.5'
.b'\\" documents it in fcntl(5).  mtk, May 2007'
.b'\\" Also, FreeBSD documents it (Apr 2014).'
.b'\\"'
.b'\\" Neil Brown: With NFSv3 the failure mode is the reverse.  If'
.b'\\"     the server loses contact with a client then any lock stays in place'
.b'\\"     indefinitely ("why can\'t I read my mail"... I remember it well).'
```

.b'\\'"
.b'\\'"
.b'\\" Jeff Layton:'
.b'\\" Note that this is not a firm timeout. The server runs a job'
.b'\\" periodically to clean out expired stateful objects, and it\'s likely'
.b'\\" that there is some time (maybe even up to another whole lease period)'
.b'\\" between when the timeout expires and the job actually runs. If the'
.b'\\" client gets a RENEW in there
 within that window, its lease will be'
.b'\\" renewed and its state preserved.'
.b'\\'"
.b'\\" commit ef1820f9be27b6ad158f433ab38002ab8131db4d'
.b'\\" commit f6de7a39c181dfb8a2c534661a53c73afb3081cd'
.b'\\" FIXME . According to POSIX.1-2001, O_SYNC should also be modifiable'
.b'\\" via fcntl(2), but currently Linux does not permit this'
.b'\\" See http://bugzilla.kernel.org/show_bug.cgi?id=5994'
.b'\\" glibc source: sysdeps/unix/sysv/linux/i386/sysdep.h'
.b'\\" mtk, Dec 04: some limited testing on alpha and ia64 seems to'
.b'\\" indicate that ANY negative PGID value will cause F_GETOWN'
.b'\\" to misinterpret the return as an error. Some other architectures'
.b'\\" seem to have the same range check as i386.'
.b'\\'"
.b'\\'"
.b'\\" http://marc.info/?l=linux-kernel&m=119013491707153&w=2'
.b'\\'"
.b'\\" Reconfirmed by Jeff Layton'
.b'\\" From: Jeff Layton <jlayton <at> redhat.com>'
.b'\\" Subject: Re: Status of fcntl() mandatory locking'
.b'\\" Newsgroups: gmane.linux.file-systems'
.b'\\"
    Date: 2014-04-28 10:07:57 GMT'
.b'\\" http://thread.gmane.org/gmane.linux.file-systems/84481/focus=84518'

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Differences from the previous manual pages release are listed in
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For further information, visit http://www.kernel.org/doc/man-pages/

POSIX PAGES
This package used to contains a copy of the POSIX 1003.1-2003
man pages. The POSIX pages are now distributed in the separate
man-pages-posix package.

THE PAGES
These pages are most of the section 2, 3, 4, 5, 7 man pages
for Linux. A few pages are provided in sections 1 and 8 for commands
that are not documented in other packages, and there are a few pages
in sections 5 and 8 for the timezone utilities.

[The timezone pages were taken from
ftp://elsie.nci.nih.gov/pub/tzcode2001a.tar.gz.]
[The section 3 man pages for the db routines have been taken from
ftp://ftp.terra.net/pub/sleepycat/db.1.86.tar.gz.]
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Here is a breakdown of what this distribution contains:

  Section 1 = user commands (intro, plus a few other pages)
  Section 2 = system calls
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  Section 4 = devices (e.g., hd, sd)

Section 5 = file formats and configuration files (e.g., wtmp, /etc/passwd)
Section 6 = games (intro only)
Section 7 = overviews, conventions, macro packages, etc.
Section 8 = system administration (intro, plus a few other pages)

This package contains no, or very few, section 1, 6, and 8 man pages
because these should be distributed with the binaries they are written
for. Sometimes Section 9 is used for man pages describing parts of
the kernel.

Note that only Section 2 is rather complete, but Section 3 contains
several hundred man pages. If you want to write some man pages,
or suggest improvements to existing pages, please visit
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.b'\\" tools/perf/design.txt file, and a lot of bitter experience.'
.b'\\"'
.b'\\" commit a21b0b354d4ac39be691f51c53562e2c24443d9e'
.b'\\" commit ac9721f3f54b27a16c7e1afb2481e7ee95a70318'
.b'\\" commit e5d1367f17ba6a6fed5fd8b74e4d5720923e0c25'
.b'\\" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b'\\" commit 2e80a82a49c4c7eca4e35734380f28298ba5db19'
.b'\\" commit 65074d43fc77bcae32776724b7fa2696923c78e4'
.b'\\" commit e12f03d7031a977356e3d7b75a68c2185ff8d155'
.b'\\" commit 33ea4b24277b06dbc55d7f5772a46f029600255e'
.b'\\" commit cb5d76999029ae7a517cb07dfa732c1b5a934fc2'
.b'\\" this was added much later when PERF_ATTR_SIZE_VER2 happened'
.b'\\" but the actual attr_size had increased in 2.6.33'
.b'\\" commit cb5d76999029ae7a517cb07dfa732c1b5a934fc2'
.b'\\" commit 1659d129ed014b715b0b2120e6fd929bdd33ed03'
.b'\\"
 commit 60e2364e60e86e81bc6377f49779779e6120977f'
.b'\\" commit 1a5941312414c71dece6717da9a0fa1303127afa'
.b'\\" commit f287d332ce835f77a4f5077d2c0ef1e3f9ea42d2'
.b'\\" commit 8f62242246351b5a4bc0c1f00c0c7003edea128a'
.b'\\" commit 8f62242246351b5a4bc0c1f00c0c7003edea128a'
.b'\\" commit c37e17497e01fc0f5d2d6feb5723b210b3ab8890'
.b'\\" commit e49a5bd38159dfb1928fd25b173bc9de4bbadb21'
.b'\\" commit f7d7986060b2890fc26db6ab5203efbd33aa2497'
.b'\\" commit f7d7986060b2890fc26db6ab5203efbd33aa2497'
.b'\\" commit fa0097ee690693006ab1aea6c01ad3c851b65c77'
.b'\\" commit 89d6c0b5bdbb1927775584dcf532d98b3efe1477'
.b'\\" commit bce38cd53e5ddba9cb6d708c4ef3d04a4016ec7e'
.b'\\" commit 4018994f3d8785275ef0e7391b75c3462c029e56'
.b'\\" commit c5ebcedb566ef17bda7b02686e0d658a7bb42ee7'
.b'\\" commit c3feedf2aaf9ac8bad6f19f5d21e4ee0b4b87e9c'
.b'\\" commit d6be9ad6c960f43800a6f118932bc8a5a4eadcd1'
.b'\\" commit ff3d527cebc1fa3707c617bfe9e74f53fcfb0955'
.b'\\" commit
```

fdfbbd07e91f8fe387140776f3fd94605f0c89e5'
.b'\\" commit 60e2364e60e86e81bc6377f49779779e6120977f'
.b'\\" commit fc7ce9c74c3ad232b084d80148654f926d01ece7'
.b'\\" commit 96aaab686505c449e24d76e76507290dcc30e008'
.b'\\" commit 82b897782d10fcc4930c9d4a15b175348fdd2871'
.b'\\" commit ab608344bcbde4f55ec4cd911b686b0ce3eae076'
.b'\\" commit 3af9e859281bda7eb7c20b51879cf43aa788ac2e'
.b'\\" commit c980d1091810df13f21aabbce545fd98f545bbf7'
.b'\\" commit a240f76165e6255384d4bdb8139895fac7988799'
.b'\\" commit a240f76165e6255384d4bdb8139895fac7988799'
.b'\\" commit d077526485d5c9b12fe85d0b2b3b7041e6bc5f91'
.b'\\" commit d077526485d5c9b12fe85d0b2b3b7041e6bc5f91'
.b'\\" commit 13d7a2410fa637f450a29ecb515ac318ee40c741'
.b'\\" This is tricky; was committed during 3.12 development'
.b'\\" but right before release was disabled.'
.b'\\" So while you could select mmap2 starting with 3.12'
.b'\\" it did not work until 3.16'
.b'\\" commit a5a5ba72843dd05f991184d6cb9a4471acce1005'
.b'\\" commit 82b897782d10fcc4930c9d4a15b175348fdd2871'
.b'\\"
commit 34f439278cef7b1177f8ce24f9fc81dfc6221d3b'
.b'\\" commit 45ac1403f564f411c6a383a2448688ba8dd705a4'
.b'\\" commit 9ecda41acb971ebd07c8fb35faf24005c0baea12'
.b'\\" commit e422267322cd319e2695a535e47c5b1feeac45eb'
.b'\\" commit 76193a94522f1d4edf2447a536f3f796ce56343b'
.b'\\" commit 6ee52e2a3fe4ea35520720736e6791df1fb67106'
.b'\\" commit ab43762ef010967e4ccd53627f70a2eecbeafefb'
.b'\\" commit 96aaab686505c449e24d76e76507290dcc30e008'
.b'\\" commit e17d43b93e544f5016c0251d2074c15568d5d963'
.b'\\" commit f506b3dc0ec454a16d40cab9ee5d75435b39dc50'
.b'\\" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b'\\" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b'\\" commit a7e3ed1e470116c9d12c2f778431a481a6be8ab6'
.b'\\" commit 24f1e32c60c45c89a997c73395b69c8af6f0a84e'
.b'\\" commit a7e3ed1e470116c9d12c2f778431a481a6be8ab6'
.b'\\" commit bce38cd53e5ddba9cb6d708c4ef3d04a4016ec7e'
.b'\\" commit c229bf9dc179d2023e185c0f705bdf68484c1e73'
.b'\\" commit c9fdfa14c3792c0160849c484e83aa57afd80ccc'
.b'\\"
commit bac52139f0b7ab31330e98fd87fc5a2664951050'
.b'\\" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b'\\" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b'\\" commit 135c5612c460f89657c4698fe2ea753f6f667963'
.b'\\" commit 2c44b1936bb3b135a3fac8b3493394d42e51cf70'
.b'\\" commit 4018994f3d8785275ef0e7391b75c3462c029e56'
.b'\\" commit c5ebcedb566ef17bda7b02686e0d658a7bb42ee7'
.b'\\" commit 34f439278cef7b1177f8ce24f9fc81dfc6221d3b'
.b'\\" commit 1a5941312414c71dece6717da9a0fa1303127afa'

.b'\\" commit 97c79a38cd454602645f0470ffb444b3b75ce574'
.b'\\" commit c7206205d00ab375839bd6c7ddb247d600693c09'
.b'\\" commit fa7315871046b9a4c48627905691dbde57e51033'
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.b'\\" commit 45bfb2e50471abbbfd83d40d28c986078b0d24ff'
.b'\\" commit 39447b386c846bbf1c56f6403c5282837486200f'
.b'\\" commit 39447b386c846bbf1c56f6403c5282837486200f'
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.b'\\" commit 2023a0d2829e521fe6ad6b9907f3f90bfbf57142'
.b'\\" ec0d7729bbaed4b9d2d3fada693278e13a3d1368'
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commit e422267322cd319e2695a535e47c5b1feeac45eb'
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.b'\\" commit e17d43b93e544f5016c0251d2074c15568d5d963'
.b'\\" See https://lkml.org/lkml/2011/5/24/337'
.b'\\" commit 179033b3e064d2cd3f5f9945e76b0a0f0fbf4883'
.b'\\" commit c7206205d00ab375839bd6c7ddb247d600693c09'
.b'\\" 7911d3f7af14a614617e38245fedf98a724e46a9'
.b'\\" commit 3581fe0ef37ce12ac7a4f74831168352ae848edc'
.b'\\" commit bad7192b842c83e580747ca57104dd51fe08c223'
.b'\\" commit ad0cf3478de8677f720ee06393b3147819568d6a'
.b'\\" commit 6fb2915df7f0747d9044da9dbff5b46dc2e20830'
.b'\\" commit cf4957f17f2a89984915ea808876d9c82225b862'
.b'\\" commit 2541517c32be2531e0da59dfd7efc1ce844644f5'
.b'\\" commit 86e7972f690c1017fd086cdfe53d8524e68c661c'
.b'\\" commit 32ff77e8cc9e66cc4fb38098f64fd54cc8f54573'
.b'\\" commit f371b304f12e31fe30207c41ca7754564e0ea4dc'
.b'\\"'

.b'\\"
default changed in commit 0161028b7c8aebef64194d3d73e43bc3b53b5c66'
.b'\\" Introduced in c5dfd78eb79851e278b7973031b9ca363da87a7e'
.b'\\" commit abe43400579d5de0078c2d3a760e6598e183f871'
.b'\\" commit 0c9d42ed4cee2aa1dfc3a260b741baae8615744f'
.b'\\" a66734297f78707ce39d756b656bfae861d53f62'
.b'\\" 7911d3f7af14a614617e38245fedf98a724e46a9'
.b'\\" commit 641cc938815dfd09f8fa1ec72deb814f0938ac33'
.b'\\" commit 641cc938815dfd09f8fa1ec72deb814f0938ac33'
.b'\\" commit 314d9f63f385096580e9e2a06eaa0745d92fe4ac'
.b'\\" bed5b25ad9c8a2f5d735ef0bc746ec870c01c1b0'
.b'\\" commit aa2bc1ade59003a379ffc485d6da2d92ea3370a6'
.b'\\" 97c79a38cd454602645f0470ffb444b3b75ce574'
.b'\\" commit a4e95fc2cbb31d70a65beffeaf8773f881328c34'
.b'\\" commit 0793a61d4df8daeac6492dbf8d2f3e5713caae5e'
.b'\\" commit cdd6c482c9ff9c55475ee7392ec8f672eddb7be6'
.b'\\" commit ba0a6c9f6fceed11c6a99e8326f0477fe383e6b5'
.b'\\" commit b690081d4d3f6a23541493f1682835c3cd5c54a1'
.b'\\" FIXME
. cannot find a kernel commit for this one'
.b'\\" commit 45e16a6834b6af098702e5ea6c9a40de42ff77d8'
.b'\\" commit 38b435b16c36b0d863efcf3f07b34a6fac9873fd'
.b'\\" commit 050735b08ca8a016bbace4445fa025b88fee770b'
.b'\\" commit 4ec8363dfc1451f8c8f86825731fe712798ada02'
.b'\\" commit 724b6daa13e100067c30cfc4d1ad06629609dc4e'
.b'\\" commit fa7315871046b9a4c48627905691dbde57e51033'
.b'\\" commit f287d332ce835f77a4f5077d2c0ef1e3f9ea42d2'

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.b'\\" 2004-11-17,
 mtk -- updated notes on /proc/loadavg'
.b'\\" 2004-12-01, mtk, rtsig-max and rtsig-nr went away in 2.6.8'
.b'\\" 2004-12-14, mtk, updated \'statm\', and fixed error in order of list'
.b'\\" 2005-05-12, mtk, updated \'stat\"
.b'\\" 2005-07-13, mtk, added /proc/sys/fs/mqueue/*'
.b'\\" 2005-09-16, mtk, Added /proc/sys/fs/suid_dumpable'
.b'\\" 2005-09-19, mtk, added /proc/zoneinfo'
.b'\\" 2005-03-01, mtk, moved /proc/sys/fs/mqueue/* material to mq_overview.7.'
.b'\\" 2008-06-05, mtk, Added /proc/[pid]/oom_score, /proc/[pid]/oom_adj,'
.b'\\"     /proc/[pid]/limits, /proc/[pid]/mountinfo, /proc/[pid]/mountstats,'
.b'\\"     and /proc/[pid]/fdinfo/*.'
.b'\\" 2008-06-19, mtk, Documented /proc/[pid]/status.'
.b'\\" 2008-07-15, mtk, added /proc/config.gz'
.b'\\'"
.b'\\" FIXME cross check against Documentation/filesystems/proc.txt'
.b'\\" to see what information could be imported from that file'
.b'\\" into this file.'
.b'\\'"
.b'\\'"
.b'\\" commit 0499680a42141d86417a8fbaa8c8db806bea1201'
.b'\\"
 As an additional bonus, since'
.b'\\" .IR /proc/[pid]/cmdline'
```

```
.b'\\" is inaccessible for other users,'
.b'\\" poorly written programs passing sensitive information via'
.b'\\" program arguments are now protected against local eavesdroppers.'
.b'\\" commit 0499680a42141d86417a8fbaa8c8db806bea1201'
.b'\\"'
.b'\\"'
.b'\\" commit 68eb94f16227336a5773b83ecfa8290f1d6b78ce'
.b'\\" https://lwn.net/Articles/28222/'
.b'\\" From:    Stephen Smalley <sds@epoch.ncsc.mil>'
.b'\\" To:\t     LKML and others'
.b'\\" Subject: [RFC][PATCH] Process Attribute API for Security Modules'
.b'\\" Date:    08 Apr 2003 16:17:52 -0400'
.b'\\"'
.b'\\"\thttp://www.nsa.gov/research/_files/selinux/papers/module/x362.shtml'
.b'\\"'
.b'\\" commit 4eb582cf1fbd7b9e5f466e3718a59c957e75254e'
.b'\\" commit b68101a1e8f0263dbc7b8375d2a7c57c6216fb76'
.b'\\" commit d410fa4ef99112386de5f218dd7df7b4fca910b4'
.b'\\" commit 42c3e03ef6b298813557cdb997bd6db619cd65a2'
.b'\\" commit 5091faa449ee0b7d73bc296a93bca9540fc51d0a'
.b'\\"
 Precisely: Linux 2.6.0-test7'
.b'\\" commit b813e931b4c8235bb42e301096ea97dbdee3e8fe (2.6.22)'
.b'\\" commit 398499d5f3613c47f2143b8c54a04efb5d7a6da9 (2.6.32)'
.b'\\" commit 040fa02077de01c7e08fa75be6125e4ca5636011 (3.11)'
.b'\\"'
.b'\\"       "Clears page referenced bits shown in smaps output"'
.b'\\"       write-only, writable only by the owner of the process'
.b'\\" Internally: CLEAR_REFS_ALL'
.b'\\" Internally: CLEAR_REFS_ANON'
.b'\\" Internally: CLEAR_REFS_MAPPED'
.b'\\" Internally: CLEAR_REFS_SOFT_DIRTY'
.b'\\" Internally: CLEAR_REFS_MM_HIWATER_RSS'
.b'\\" In 2.3.26, this also used to be true if the process was swapped out.'
.b'\\" commit 4614a696bd1c3a9af3a08f0e5874830a85b889d4'
.b'\\" and/proc/[pid]/task/[tid]/cpuset'
.b'\\" The following was still true as at kernel 2.6.13'
.b'\\" The following was still true as at kernel 2.6.13'
.b'\\"The following was still true as at kernel 2.6.13'
.b'\\" The following is not true in my tests (MTK):'
.b'\\" Note that this will not work for'
.b'\\"
 programs that seek on their files, as the files in the fd directory'
.b'\\" are not seekable.'
.b'\\" commit 1117f72ea0217ba0cc19f05adbbd8b9a397f5ab7'
.b'\\" commit 49d063cb353265c3af701bab215ac438ca7df36d'
.b'\\" commit cbac5542d48127b546a23d816380a7926eee1c25'
.b'\\" commit 138d22b58696c506799f8de759804083ff9effae'
```

```
.b'\\" commit 138d22b58696c506799f8de759804083ff9effae'
.b'\\" commit af9c4957cf212ad9cf0bee34c95cb11de5426e85'
.b'\\" commit 7c3ab7381e79dfc7db14a67c6f4f3285664e1ec2'
.b'\\" commit 3036e7b490bf7878c6dae952eec5fb87b1106589'
.b'\\" FIXME Describe /proc/[pid]/loginuid'
.b'\\"       Added in 2.6.11; updating requires CAP_AUDIT_CONTROL'
.b'\\"       CONFIG_AUDITSYSCALL'
.b'\\" commit 640708a2cff7f81e246243b0073c66e6ece7e53e'
.b'\\" commit bdb4d100afe9818aebd1d98ced575c5ef143456c'
.b'\\" commit b76437579d1344b612cf1851ae610c636cec7db0 (added)'
.b'\\" commit 65376df582174ffcec9e6471bf5b0dd79ba05e4a (removed)'
.b'\\" This info adapted from Documentation/filesystems/proc.txt'
.b'\\"
 commit 2d4d4864ac08caff5c204a752bd004eed4f08760'
.b'\\" Miklos Szeredi, Nov 2017: The hidden one is the initramfs, I believe'
.b'\\" mtk: In the initial mount namespace, this hidden ID has the value 0'
.b'\\" See commit 6b4e306aa3dc94a0545eb9279475b1ab6209a31f'
.b'\\" See mm/oom_kill.c::badness() in pre 2.6.36 sources'
.b'\\" See mm/oom_kill.c::oom_badness() after 2.6.36'
.b'\\" commit a63d83f427fbce97a6cea0db2e64b0eb8435cd10'
.b'\\" See mm/oom_kill.c::badness() in pre 2.6.36 sources'
.b'\\" See mm/oom_kill.c::oom_badness() after 2.6.36'
.b'\\" commit a63d83f427fbce97a6cea0db2e64b0eb8435cd10'
.b'\\" More precisely, if it has CAP_SYS_ADMIN or (pre 2.6.36) CAP_SYS_RESOURCE'
.b'\\" More precisely, if it has CAP_SYS_RAWIO'
.b'\\" Text taken from 3.7 Documentation/filesystems/proc.txt'
.b'\\" Not quite true; see commit 541c237c0923f567c9c4cabb8a81635baadc713f'
.b'\\" commit 77bb499bb60f4b79cca7d139c8041662860fcf87'
.b'\\" commit 83b4b0bb635eee2b8e075062e4e008d1bc110ed7'
.b'\\"
 commit 478307230810d7e2a753ed220db9066dfdf88718'
.b'\\" The following was still true as at kernel 2.6.13'
.b'\\" FIXME Describe /proc/[pid]/projid_map'
.b'\\"       Added in 3.7'
.b'\\"       commit f76d207a66c3a53defea67e7d36c3eb1b7d6d61d'
.b'\\" FIXME Describe /proc/[pid]/sessionid'
.b'\\"\t  commit 1e0bd7550ea9cf474b1ad4c6ff5729a507f75fdc'
.b'\\"       CONFIG_AUDITSYSCALL'
.b'\\"       Added in 2.6.25; read-only; only readable by real UID'
.b'\\"'
.b'\\" FIXME Describe /proc/[pid]/sched'
.b'\\"       Added in 2.6.23'
.b'\\"       CONFIG_SCHED_DEBUG, and additional fields if CONFIG_SCHEDSTATS'
.b'\\"       Displays various scheduling parameters'
.b'\\"       This file can be written, to reset stats'
.b'\\"       The set of fields exposed by this file have changed'
.b'\\"\t  significantly over time.'
.b'\\"       commit 43ae34cb4cd650d1eb4460a8253a8e747ba052ac'
```

.b'\\'"
.b'\\" FIXME Describe /proc/[pid]/schedstats and'
.b'\\" /proc/[pid]/task/[tid]/schedstats'
.b'\\" Added
 in 2.6.9'
.b'\\" CONFIG_SCHEDSTATS'
.b'\\" 2ec220e27f5040aec1e88901c1b6ea3d135787ad'
.b'\\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'
.b'\\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'
.b'\\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'
.b'\\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'
.b'\\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'
.b'\\" commit 44d90df6b757c59651ddd55f1a84f28132b50d29'
.b'\\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'
.b'\\" commit f2530dc71cf0822f90bb63ea4600caaef33a66bb'
.b'\\" commit 74e37200de8e9c4e09b70c21c3f13c2071e77457'
.b'\\" This field and following, up to and including wchan added 0.99.1'
.b'\\" And back in kernel 1.2 days things were different again.'
.b'\\" Back in kernel 1.2 days things were different.'
.b'\\" .TP'
.b'\\" \\fIcounter\\fP %ld'
.b'\\" The current maximum size in jiffies of the process\'s next timeslice,'
.b'\\" or what is currently left of its current timeslice, if it is the'
.b'\\" currently running
 process.'
.b'\\" .TP'
.b'\\" \\fItimeout\\fP %u'
.b'\\" The time in jiffies of the process\'s next timeout.'
.b'\\" timeout was removed sometime around 2.1/2.2'
.b'\\" nswap was added in 2.0'
.b'\\" cnswap was added in 2.0'
.b'\\" commit b3f7f573a20081910e34e99cbc91831f4f02f1ff'
.b'\\" commit b3f7f573a20081910e34e99cbc91831f4f02f1ff'
.b'\\" commit b3f7f573a20081910e34e99cbc91831f4f02f1ff'
.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" commit 5b172087f99189416d5f47fd7ab5e6fb762a9ba3'
.b'\\" (not including libs; broken, includes data segment)'
.b'\\" (including libs; broken, includes library text)'
.b'\\" See SPLIT_RSS_COUNTING in the kernel.'
.b'\\" Inaccuracy is bounded by TASK_RSS_EVENTS_THRESH.'
.b'\\" commit e4bc33245124db69b74a6d853ac76c2976f472d5'
.b'\\" commit bc3e53f682d93df677dbd5006a404722b3adfe18'
.b'\\"
 commit bf9683d6990589390b5178dafe8fd06808869293'
.b'\\" commit bf9683d6990589390b5178dafe8fd06808869293'

```
.b'\\" commit bf9683d6990589390b5178dafe8fd06808869293'
.b'\\" commit dc6c9a35b66b520cf67e05d8ca60ebecad3b0479'
.b'\\" commit b084d4353ff99d824d3bc5a5c2c22c70b1fba722'
.b'\\" commit 5d317b2b6536592a9b51fe65faed43d65ca9158e'
.b'\\" commit c643401218be0f4ab3522e0c0a63016596d6e9ca'
.b'\\" commit af884cd4a5ae62fcf5e321fecf0ec1014730353d'
.b'\\" commit 2f4b3bf6b2318cfaa177ec5a802f4d8d6afbd816'
.b'\\" commit fae1fa0fc6cca8beee3ab8ed71d54f9a78fa3f64'
.b'\\" commit ebcb67341fee34061430f3367f2e507e52ee051b'
.b'\\" Precisely: Linux 2.6.0-test6'
.b'\\" in particular: "children" :/'
.b'\\" The following was still true as at kernel 2.6.13'
.b'\\" commit 818411616baf46ceba0cff6f05af3a9b294734f7'
.b'\\" see comments in get_children_pid() in fs/proc/array.c'
.b'\\" commit 2e13ba54a2682eea24918b87ad3edf70c2cf085b'
.b'\\" commit 5ed67f05f66c41e39880a6d61358438a25f9fee5'
.b'\\" commit 48f6a7a511ef8823fdff39afee0320092d43a8a0'
.b'\\"
 commit da8b44d5a9f8bf26da637b7336508ca534d6b319'
.b'\\" commit 5de23d435e88996b1efe0e2cebe242074ce67c9e'
.b'\\" commit 7abbaf94049914f074306d960b0f968ffe52e59f'
.b'\\" commit 3b72c814a8e8cd638e1ba0da4dfce501e9dff5af'
.b'\\" FIXME Much more needs to be said about /proc/fs'
.b'\\"'
.b'\\" commit 80ae2fdceba8313b0433f899bdd9c6c463291a17'
.b'\\" KPF_BALLOON: commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b'\\" KPF_ZERO_PAGE: commit 56873f43abdcd574b25105867a990f067747b2f4'
.b'\\" KPF_IDLE: commit f074a8f49eb87cde95ac9d040ad5e7ea4f029738'
.b'\\" commit ad3bdefe877afb47480418fdb05ecd42842de65e'
.b'\\" commit e07a4b9217d1e97d2f3a62b6b070efdc61212110'
.b'\\" commit 9d5b86ac13c573795525ecac6ed2db39ab23e2a8'
.b'\\" commit d67fd44f697dff293d7cdc29af929241b669affe'
.b'\\" It looks like this only ever did something back in 1.0 days'
.b'\\" commit a5ad88ce8c7fae7ddc72ee49a11a75aa837788e0'
.b'\\" commit a5ad88ce8c7fae7ddc72ee49a11a75aa837788e0'
.b'\\"
 commit 7225e75144b9718cbbe1820d9c011c809d5773fd'
.b'\\" commit e9720acd728a46cb40daa52c99a979f7c4ff195c'
.b'\\" .TP'
.b'\\" .I /proc/net/ipx'
.b'\\" No information.'
.b'\\" .TP'
.b'\\" .I /proc/net/ipx_route'
.b'\\" No information.'
.b'\\" .TP'
.b'\\" .I /proc/net/route'
.b'\\" No information, but looks similar to'
.b'\\" .BR route (8).'
```

.b'\\" FIXME Document /proc/sched_debug (since Linux 2.6.23)'
.b'\\" See also /proc/[pid]/sched'
.b'\\" 1024 on Alpha and ia64'
.b'\\" FIXME . Actually, the following info about the /proc/stat \'cpu\' field'
.b'\\"   does not seem to be quite right (at least in 2.6.12 or 3.6):'
.b'\\"   the idle time in /proc/uptime does not quite match this value'
.b'\\" See kernel commit 9c240d757658a3ae9968dd309e674c61f07c7f48'
.b'\\" Precisely: Linux 2.6.0-test4'
.b'\\" Precisely: Linux 2.6.0-test4'
.b'\\" See Changelog entry for 5e84cfde51cf303d368fcb48f22059f37b3872de'
.b'\\" commit ce0e7b28fb75cb003cfc8d0238613aaf1c55e797'
.b'\\" FIXME . The following is
 not the full picture for the \'intr\' of'
.b'\\"   /proc/stat on 2.6:'
.b'\\" commit d3d64df21d3d0de675a0d3ffa7c10514f3644b30'
.b'\\" On some systems, it is not present.'
.b'\\" looks like this is unused in kernels 2.2 to 2.6'
.b'\\" looks like this is unused in kernels 2.2 to 2.6'
.b'\\" This can be slightly more than'
.b'\\" .I inode\\-max'
.b'\\" because Linux allocates them one page full at a time.'
.b'\\" commit d29216842a85c7970c536108e093963f02714498'
.b'\\" commit 9cfe015aa424b3c003baba3841a60dd9b5ad319b'
.b'\\" commit 800179c9b8a1e796e441674776d11cd4c05d61d7'
.b'\\" commit 800179c9b8a1e796e441674776d11cd4c05d61d7'
.b'\\" The following is based on text from Documentation/sysctl/kernel.txt'
.b'\\" In kernel source: SUID_DUMP_DISABLE'
.b'\\" In kernel source: SUID_DUMP_USER'
.b'\\" In kernel source: SUID_DUMP_ROOT'
.b'\\" 9520628e8ceb69fa9a4aee6b57f22675d9e1b709'
.b'\\" 54b501992dd2a839e94e76aa392c392b55080ce8'
.b'\\" commit 9eefe520c814f6f62c5d36a2ddcd3fb99dfdb30e (introduces
 feature)'
.b'\\" commit 0050ee059f7fc86b1df2527aaa14ed5dc72f9973 (rendered redundant)'
.b'\\" FIXME Must document the 3.19 \'msgmni\' changes.'
.b'\\" commit 620f6e8e855d6d447688a5f67a4e176944a084e8'
.b'\\" Removed in commit 87f504e5c78b910b0c1d6ffb89bc95e492322c84 (tglx/history.git)'
.b'\\" removed in commit 1b483a6a7b2998e9c98ad985d7494b9b725bd228, before 2.6.28'
.b'\\" 455cd5ab305c90ffc422dd2e0fb634730942b257'
.b'\\" commit 411f05f123cbd7f8aa1edcae86970755a6e2a9d9'
.b'\\" commit 620f6e8e855d6d447688a5f67a4e176944a084e8'
.b'\\" 3d43321b7015387cfebbe26436d0e9d299162ea1'
.b'\\" From Documentation/sysctl/kernel.txt'
.b'\\" Prior to 2.6.10, pid_max could also be raised above 32768 on 32-bit'
.b'\\" platforms, but this broke /proc/[pid]'
.b'\\" See http://marc.theaimsgroup.com/?l=linux-kernel&m=109513010926152&w=2'
.b'\\" FIXME Document /proc/sys/kernel/pty/reserve'
.b'\\"   New in Linux 3.3'

```
.b'\\"     commit e9aba5158a80098447ff207a452a3418ae7ee386'
.b'\\" Some further details can
 be found in Documentation/sysctl/kernel.txt'
.b'\\" commit c1d171a002942ea2d93b4fbd0c9583c56fce0772'
.b'\\" commit 9d85025b0418163fae079c9ba8f8445212de8568'
.b'\\" commit 5091faa449ee0b7d73bc296a93bca9540fc51d0a'
.b'\\" commit 8e5f1ad116df6b0de65eac458d5e7c318d1c05af'
.b'\\" commit b34a6b1da371ed8af1221459a18c67970f7e3d53'
.b'\\" See also Documentation/sysctl/kernel.txt'
.b'\\" commit f88083005ab319abba5d0b2e4e997558245493c8'
.b'\\" commit 2ca9bb456ada8bcbdc8f77f8fc78207653bbaa92'
.b'\\" commit f4aacea2f5d1a5f7e3154e967d70cf3f711bcd61'
.b'\\" commit 24fe831c17ab8149413874f2fd4e5c8a41fcd294'
.b'\\" FIXME .'
.b'\\"     With /proc/sys/kernel/sysctl_writes_strict==1, writes at an'
.b'\\"     offset other than 0 do not generate an error. Instead, the'
.b'\\"     write() succeeds, but the file is left unmodified.'
.b'\\"     This is surprising. The behavior may change in the future.'
.b'\\"     See thread.gmane.org/gmane.linux.man/9197'
.b'\\"\t\tFrom: Michael Kerrisk (man-pages <mtk.manpages@...>'
.b'\\"\t\tSubject:
 sysctl_writes_strict documentation + an oddity?'
.b'\\"\t\tNewsgroups: gmane.linux.man, gmane.linux.kernel'
.b'\\"\t\tDate: 2015-05-09 08:54:11 GMT'
.b'\\" commit 9d85025b0418163fae079c9ba8f8445212de8568'
.b'\\" The following is based on Documentation/sysctl/kernel.txt'
.b'\\" commit 230633d109e35b0a24277498e773edeb79b4a331'
.b'\\" commit 4eeab4f5580d11bffedc697684b91b0bca0d5009'
.b'\\" The following is from Documentation/filesystems/proc.txt'
.b'\\" The following is based on the text in Documentation/sysctl/vm.txt'
.b'\\" The following is based on the text in Documentation/sysctl/vm.txt'
.b'\\" The following is from Documentation/sysctl/vm.txt'
.b'\\" The following is from Documentation/sysctl/vm.txt'
.b'\\" commit 49f0ce5f92321cdcf741e35f385669a421013cb7'
.b'\\" The following is adapted from Documentation/sysctl/vm.txt'
.b'\\" The following is from Documentation/sysctl/vm.txt'
.b'\\" commit c9b1d0981fcce3d9976d7b7a56e4e0503bc610dd'
.b'\\" cefdca0a86be517bc390fc4541e3674b8e7803b0'
.b'\\"
 commit 9d85025b0418163fae079c9ba8f8445212de8568'
.b'\\" commit 0097875bd41528922fb3bb5f348c53f17e00e2fd'
.b'\\" commit 289f480af87e45f7a6de6ba9b4c061c2e259fe98'
.b'\\" commit 82f67cd9fca8c8762c15ba7ed0d5747588c1e221'
.b'\\"\tDate:   Fri Feb 16 01:28:13 2007 -0800'
.b'\\" Text largely derived from Documentation/timers/timer_stats.txt'
.b'\\" removed in commit dfb4357da6ddbdf57d583ba64361c9d792b0e0b1'
.b'\\"     Date:   Wed Feb 8 11:26:59 2017 -0800'
.b'\\" commit c5c061b8f9726bc2c25e19dec227933a13d1e6b7 deferrable timers'
```

```
.b'\\" FIXME 2.6.13 seems to have /proc/vmcore implemented; document this'
.b'\\" \tSee Documentation/kdump/kdump.txt'
.b'\\"\tcommit 666bfddbe8b8fd4fd44617d6c55193d5ac7edb29'
.b'\\" \tNeeds CONFIG_VMCORE'
.b'\\"'
.b'\\" FIXME We need explanations for each of the following fields...'
.b'\\" commit d23ad42324cc4378132e51f2fc5c9ba6cbe75182'
.b'\\" commit 81c0a2bb515fd4daae8cab64352877480792b515'
.b'\\" commit 4f98a2fee8acdb4ac84545df98cccecfd130f8db'
.b'\\"
 commit 4f98a2fee8acdb4ac84545df98cccecfd130f8db'
.b'\\" commit 4f98a2fee8acdb4ac84545df98cccecfd130f8db'
.b'\\" commit 4f98a2fee8acdb4ac84545df98cccecfd130f8db'
.b'\\" commit 7b854121eb3e5ba0241882ff939e2c485228c9c5'
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" commit f3dbd34460ff54962d3e3244b6bcb7f5295356e6'
.b'\\" commit 347ce434d57da80fd5809c0c836f206a50999c26'
.b'\\" commit 972d1a7b140569084439a81265a0f15b74e924e0'
.b'\\" Linux 2.6.0 had nr_slab'
.b'\\" commit 972d1a7b140569084439a81265a0f15b74e924e0'
.b'\\" commit c6a7f5728a1db45d30df55a01adc130b4ab0327c'
.b'\\" commit edfbe2b0038723e5699ab22695ccd62b5542a5c1'
.b'\\" commit e129b5c23c2b471d47f1c5d2b8b193fc2034af43'
.b'\\" commit 49ea7eb65e7c5060807fb9312b1ad4c3eab82e2c'
.b'\\" commit fc3ba692a4d19019387c5acaea63131f9eab05dd'
.b'\\" commit a731286de62294b63d8ceb3c5914ac52cc17e690'
.b'\\" commit a731286de62294b63d8ceb3c5914ac52cc17e690'
.b'\\" commit 4b02108ac1b3354a22b0d83c684797692efdc395'
.b'\\"
 commit ea941f0e2a8c02ae876cd73deb4e1557248f258c'
.b'\\" commit ea941f0e2a8c02ae876cd73deb4e1557248f258c'
.b'\\" commit 0d5d823ab4e608ec7b52ac4410de4cb74bbe0edd'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit ca889e6c45e0b112cb2ca9d35afc66297519b5d5'
```

.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" commit
a528910e12ec7ee203095eb1711468a66b9b60b0'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit a528910e12ec7ee203095eb1711468a66b9b60b0'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 449dd6984d0e47643c04c807f609dd56d48d5bcc'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit d1ce749a0db12202b711d1aba1d29e823034648d'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 79da826aee6a10902ef411bc65864bd02102fa83'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 79da826aee6a10902ef411bc65864bd02102fa83'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only
if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Linux 2.6.0 had pgalloc'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS

.'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Linux 2.6.0 had pgrefill'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\"
Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Formerly there were'
.b'\\" pgsteal_high'
.b'\\" pgsteal_normal'
.b'\\" pgsteal_dma32'
.b'\\" pgsteal_dma'
.b'\\" These were split out into pgsteal_kswapd* and pgsteal_direct*'
.b'\\" in commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Linux 2.6.0 had pgsteal'
.b'\\" Present only if the kernel was configured with'
.b'\\" .\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present

```
 only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 904249aa68010c8e223263c922fcbb840a3f42e4'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS
 .'
.b'\\" Linux 2.6.0 had pgscan'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 9328b8faae922e52073785ed6c1eaa8565648a0e'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\"
```

```
 Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HIGHMEM .'
.b'\\" commit 2a1e274acf0b1c192face19a4be7c12d4503eaaf'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 68243e76ee343d63c6cf76978588a885951e2818'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 24cf72518c79cdcda486ed26074ff8151291cf65'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit bb3ab596832b920c703d1aea1ce76d69c0f71fb7'
.b'\\" Present only if the kernel was configured
 with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit bb3ab596832b920c703d1aea1ce76d69c0f71fb7'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5509a5d27b971a90b940e148ca9ca53312e4fa7a'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5509a5d27b971a90b940e148ca9ca53312e4fa7a'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 72403b4a0fbdf433c1fe0127e49864658f6f6468'
.b'\\"
```

```
 Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 03c5a6e16322c997bf8f264851bfa3f532ad515f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING'
.b'\\" and'
.b'\\" .BR CONFIG_NUMA_BALANCING .'
.b'\\" commit 5647bc293ab15f66a7b1cda850c5e9d162a6c7c2'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_MIGRATION .'
.b'\\"
 commit 5647bc293ab15f66a7b1cda850c5e9d162a6c7c2'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_MIGRATION .'
.b'\\" commit 397487db696cae0b026a474a5cd66f4e372995e6'
.b'\\" Linux 3.8 dropped compact_blocks_moved, compact_pages_moved, and'
.b'\\"           compact_pagemigrate_failed'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 397487db696cae0b026a474a5cd66f4e372995e6'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 397487db696cae0b026a474a5cd66f4e372995e6'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
```

.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 56de7263fcf3eb10c8dcdf8d59a9cec831795f3f'
.b'\\" Present only if the kernel was configured with'
.b'\\"
.BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 56de7263fcf3eb10c8dcdf8d59a9cec831795f3f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 56de7263fcf3eb10c8dcdf8d59a9cec831795f3f'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_COMPACTION .'
.b'\\" commit 3b11630063323021 17b1b2acf226d4014ff46525'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HUGETLB_PAGE .'
.b'\\" commit 3b11630063323021 17b1b2acf226d4014ff46525'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_HUGETLB_PAGE .'
.b'\\" commit bbfd28eee9fbd73e780b19beb3dc562befbb94fa'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\"
commit bbfd28eee9fbd73e780b19beb3dc562befbb94fa'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit bbfd28eee9fbd73e780b19beb3dc562befbb94fa'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" commit 5344b7e648980cc2ca613ec03a56a8222ff48820'
.b'\\" Present only if the kernel was configured with'

.b'\\" .BR CONFIG_VM_EVENT_COUNTERS .'
.b'\\" Linux 3.7 removed unevictable_pgs_mlockfreed'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\"
Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 81ab4201fb7d91d6b0cd9ad5b4b16776e4bed145'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit d8a8e1f0da3d29d7268b3300c96a059d63901b76'
.b'\\"
Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit d8a8e1f0da3d29d7268b3300c96a059d63901b76'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_TRANSPARENT_HUGEPAGE .'
.b'\\" commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'
.b'\\" .BR CONFIG_MEMORY_BALLOON .'
.b'\\" commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS'
.b'\\" and'

.b'\\" .BR CONFIG_MEMORY_BALLOON .'
.b'\\" commit 09316c09dde33aae14f34489d9e3d243ec0d5938'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_VM_EVENT_COUNTERS ,'
.b'\\" .BR CONFIG_MEMORY_BALLOON ,'
.b'\\" and'
.b'\\" .BR CONFIG_BALLOON_COMPACTION .'
.b'\\"
commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_TLBFLUSH'
.b'\\" and'
.b'\\" .BR CONFIG_SMP .'
.b'\\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_TLBFLUSH'
.b'\\" and'
.b'\\" .BR CONFIG_SMP .'
.b'\\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_TLBFLUSH .'
.b'\\" commit 9824cf9753ecbe8f5b47aa9b2f218207defea211'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_TLBFLUSH .'
.b'\\" commit 4f115147ff802267d0aa41e361c5aa5bd933d896'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_VM_VMACACHE .'
.b'\\" commit 4f115147ff802267d0aa41e361c5aa5bd933d896'
.b'\\" Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_VM_VMACACHE .'
.b'\\" commit f5f302e21257ebb0c074bbafc37606c26d28cc3d'
.b'\\"
Present only if the kernel was configured with'
.b'\\" .BR CONFIG_DEBUG_VM_VMACACHE .'
.b'\\" FIXME more should be said about /proc/zoneinfo'
.b'\\" .SH ACKNOWLEDGEMENTS'
.b'\\" The material on /proc/sys/fs and /proc/sys/kernel is closely based on'
.b'\\" kernel source documentation files written by Rik van Riel.'

Found in path(s):
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man5/proc.5
No license file was found, but licenses were detected in source scan.

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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/undocumented.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/gettimeofday.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/bindresvport.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/llseek.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/atan2.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/clearenv.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/rmdir.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/pthread_testcancel.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/sigqueue.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/sigsetops.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/sigwaitinfo.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/getfsent.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/sgetmask.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/setfsuid.2
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/man-pages-5-10-1-tar-gz/man-pages-5.10/man3/posix_openpt.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/getrusage.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/utimensat.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/sigpause.3
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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/malloc_get_state.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/getprotoent_r.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/open.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/pthread_setname_np.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/getpwnam.3
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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/ether_aton.3
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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/timegm.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/move_pages.2
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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/resolver.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/string.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/times.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/j0.3

* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/access.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/_exit.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/prctl.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/swapon.2
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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/msgctl.2
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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/clock_nanosleep.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/tkill.2
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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/getgrnam.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/sqrt.3

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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/end.3
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man2/migrate_pages.2
* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/bcmp.3
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* /man-pages-5-10-1-tar-gz/man-pages-5.10/man3/memcpy.3

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// Original can be found at:
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// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification

// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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}
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
==

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spdx-license-ids

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Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
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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 direction to make these releases possible.

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'openssl/crypto/rand/rand_egd.c',
'openssl/crypto/rand/rand_err.c',
'openssl/crypto/rand/rand_lib.c',

'openssl/crypto/rand/rand_unix.c',
'openssl/crypto/rand/rand_vms.c',
'openssl/crypto/rand/rand_win.c',
'openssl/crypto/rand/randfile.c',
'openssl/crypto/rc2/rc2_cbc.c',
'openssl/crypto/rc2/rc2_ecb.c',
'openssl/crypto/rc2/rc2_skey.c',
'openssl/crypto/rc2/rc2cfb64.c',
'openssl/crypto/rc2/rc2ofb64.c',
'openssl/crypto/ripemd/rmd_dgst.c',
'openssl/crypto/ripemd/rmd_one.c',
'openssl/crypto/rsa/rsa_ameth.c',
'openssl/crypto/rsa/rsa_asn1.c',
'openssl/crypto/rsa/rsa_chk.c',
'openssl/crypto/rsa/rsa_crpt.c',
'openssl/crypto/rsa/rsa_depr.c',
'openssl/crypto/rsa/rsa_err.c',
'openssl/crypto/rsa/rsa_gen.c',
'openssl/crypto/rsa/rsa_lib.c',
'openssl/crypto/rsa/rsa_meth.c',
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'openssl/crypto/rsa/rsa_oaep.c',
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'openssl/crypto/rsa/rsa_prn.c',
'openssl/crypto/rsa/rsa_pss.c',
'openssl/crypto/rsa/rsa_saos.c',
'openssl/crypto/rsa/rsa_sign.c',
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'openssl/crypto/rsa/rsa_x931g.c',
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'openssl/crypto/seed/seed_cfb.c',
'openssl/crypto/seed/seed_ecb.c',
'openssl/crypto/seed/seed_ofb.c',
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'openssl/crypto/siphash/siphash_ameth.c',
'openssl/crypto/siphash/siphash_pmeth.c',
'openssl/crypto/sm2/sm2_crypt.c',
'openssl/crypto/sm2/sm2_err.c',
'openssl/crypto/sm2/sm2_pmeth.c',
'openssl/crypto/sm2/sm2_sign.c',
'openssl/crypto/sm3/m_sm3.c',
'openssl/crypto/sm3/sm3.c',
'openssl/crypto/sm4/sm4.c',
'openssl/crypto/srp/srp_lib.c',
'openssl/crypto/srp/srp_vfy.c',
'openssl/crypto/stack/stack.c',
'openssl/crypto/store/loader_file.c',
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'openssl/crypto/store/store_lib.c',
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'openssl/crypto/threads_win.c',
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'openssl/crypto/ui/ui_util.c',
'openssl/crypto/uid.c',
'openssl/crypto/whrlpool/wp_dgst.c',
'openssl/crypto/x509/by_dir.c',
'openssl/crypto/x509/by_file.c',
'openssl/crypto/x509/t_crl.c',
'openssl/crypto/x509/t_req.c',
'openssl/crypto/x509/t_x509.c',
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'openssl/crypto/x509/x509_cmp.c',
'openssl/crypto/x509/x509_d2.c',
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'openssl/crypto/x509/x509_r2x.c',
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'openssl/crypto/x509v3/pcy_lib.c',

```
  'openssl/crypto/x509v3/pcy_map.c',
  'openssl/crypto/x509v3/pcy_node.c',
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  'openssl/crypto/x509v3/v3_admis.c',
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  'openssl/crypto/x509v3/v3_akeya.c',
  'openssl/crypto/x509v3/v3_alt.c',
  'openssl/crypto/x509v3/v3_asid.c',
  'openssl/crypto/x509v3/v3_bcons.c',
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  'openssl/crypto/x509v3/v3_cpols.c',
  'openssl/crypto/x509v3/v3_crld.c',
  'openssl/crypto/x509v3/v3_enum.c',
  'openssl/crypto/x509v3/v3_extku.c',
  'openssl/crypto/x509v3/v3_genn.c',
  'openssl/crypto/x509v3/v3_ia5.c',
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  'openssl/crypto/x509v3/v3_lib.c',
  'openssl/crypto/x509v3/v3_ncons.c',
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  'openssl/crypto/x509v3/v3_pcia.c',
  'openssl/crypto/x509v3/v3_pcons.c',
  'openssl/crypto/x509v3/v3_pku.c',
  'openssl/crypto/x509v3/v3_pmaps.c',
  'openssl/crypto/x509v3/v3_prn.c',
  'openssl/crypto/x509v3/v3_purp.c',
   'openssl/crypto/x509v3/v3_skey.c',
  'openssl/crypto/x509v3/v3_sxnet.c',
  'openssl/crypto/x509v3/v3_tlsf.c',
  'openssl/crypto/x509v3/v3_utl.c',
  'openssl/crypto/x509v3/v3err.c',
  'openssl/engines/e_capi.c',
  'openssl/engines/e_padlock.c',
],
'openssl_sources_BSD-x86_64': [
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/vpaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx2.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont5.s',
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```
  './config/archs/BSD-x86_64/asm/crypto/camellia/cmll-x86_64.s',
   './config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/poly1305/poly1305-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/keccak1600-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha256-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
   './config/archs/BSD-x86_64/asm/crypto/whrlpool/wp-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
  './config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
],
'openssl_defines_BSD-x86_64': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_PIC',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
  'OPENSSL_BN_ASM_GF2m',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'KECCAK1600_ASM',
  'RC4_ASM',
  'MD5_ASM',
  'AESNI_ASM',
  'VPAES_ASM',
  'GHASH_ASM',
  'ECP_NISTZ256_ASM',
  'X25519_ASM',
  'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
  '-Wa,--noexecstack',
  '-Wall -O3',
  '-pthread',
  '-Wall -O3',
],
```

```
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
 },
 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
 ],
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}
```

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 CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
{
 'variables': {
  'openssl_defines_BSD-x86_64': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_PIC',
  ],
  'openssl_cflags_BSD-x86_64': [
    '-Wall -O3',
    '-pthread',
    '-Wall -O3',
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```
],
'openssl_ex_libs_BSD-x86_64': [
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],
'openssl_cli_srcs_BSD-x86_64': [
  'openssl/apps/asn1pars.c',
  'openssl/apps/ca.c',
  'openssl/apps/ciphers.c',
  'openssl/apps/cms.c',
  'openssl/apps/crl.c',
  'openssl/apps/crl2p7.c',
  'openssl/apps/dgst.c',
  'openssl/apps/dhparam.c',
  'openssl/apps/dsa.c',
  'openssl/apps/dsaparam.c',
  'openssl/apps/ec.c',
  'openssl/apps/ecparam.c',
  'openssl/apps/enc.c',
  'openssl/apps/engine.c',
  'openssl/apps/errstr.c',
  'openssl/apps/gendsa.c',
  'openssl/apps/genpkey.c',
  'openssl/apps/genrsa.c',
  'openssl/apps/nseq.c',
  'openssl/apps/ocsp.c',
  'openssl/apps/openssl.c',
  'openssl/apps/passwd.c',
  'openssl/apps/pkcs12.c',
   'openssl/apps/pkcs7.c',
  'openssl/apps/pkcs8.c',
  'openssl/apps/pkey.c',
  'openssl/apps/pkeyparam.c',
  'openssl/apps/pkeyutl.c',
  'openssl/apps/prime.c',
  'openssl/apps/rand.c',
  'openssl/apps/rehash.c',
  'openssl/apps/req.c',
  'openssl/apps/rsa.c',
  'openssl/apps/rsautl.c',
  'openssl/apps/s_client.c',
  'openssl/apps/s_server.c',
  'openssl/apps/s_time.c',
  'openssl/apps/sess_id.c',
  'openssl/apps/smime.c',
  'openssl/apps/speed.c',
  'openssl/apps/spkac.c',
  'openssl/apps/srp.c',
  'openssl/apps/storeutl.c',
```

```
    'openssl/apps/ts.c',
    'openssl/apps/verify.c',
    'openssl/apps/version.c',
    'openssl/apps/x509.c',
    'openssl/apps/app_rand.c',
    'openssl/apps/apps.c',
    'openssl/apps/bf_prefix.c',
    'openssl/apps/opt.c',
    'openssl/apps/s_cb.c',
    'openssl/apps/s_socket.c',
  ],
 },
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'include_dirs':
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   './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86_64)'],
}
```

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```
{
 'variables': {
   'openssl_sources': [
     'openssl/ssl/bio_ssl.c',
     'openssl/ssl/d1_lib.c',
     'openssl/ssl/d1_msg.c',
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'openssl/ssl/d1_srtp.c',
'openssl/ssl/methods.c',
'openssl/ssl/packet.c',
'openssl/ssl/pqueue.c',
'openssl/ssl/record/dtls1_bitmap.c',
'openssl/ssl/record/rec_layer_d1.c',
'openssl/ssl/record/rec_layer_s3.c',
'openssl/ssl/record/ssl3_buffer.c',
'openssl/ssl/record/ssl3_record.c',
'openssl/ssl/record/ssl3_record_tls13.c',
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'openssl/ssl/t1_enc.c',
'openssl/ssl/t1_lib.c',
'openssl/ssl/t1_trce.c',
'openssl/ssl/tls13_enc.c',
'openssl/ssl/tls_srp.c',
'openssl/crypto/aes/aes_cbc.c',
'openssl/crypto/aes/aes_cfb.c',
'openssl/crypto/aes/aes_core.c',
'openssl/crypto/aes/aes_ecb.c',
'openssl/crypto/aes/aes_ige.c',
'openssl/crypto/aes/aes_misc.c',
'openssl/crypto/aes/aes_ofb.c',

'openssl/crypto/aes/aes_wrap.c',
'openssl/crypto/aria/aria.c',
'openssl/crypto/asn1/a_bitstr.c',
'openssl/crypto/asn1/a_d2i_fp.c',
'openssl/crypto/asn1/a_digest.c',
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'openssl/crypto/asn1/a_gentm.c',
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'openssl/crypto/asn1/nsseq.c',
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'openssl/crypto/bio/b_print.c',
'openssl/crypto/bio/b_sock.c',
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'openssl/crypto/bio/bf_nbio.c',
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'openssl/crypto/x509/x_exten.c',
'openssl/crypto/x509/x_name.c',
'openssl/crypto/x509/x_pubkey.c',
'openssl/crypto/x509/x_req.c',
'openssl/crypto/x509/x_x509.c',
'openssl/crypto/x509/x_x509a.c',
'openssl/crypto/x509v3/pcy_cache.c',
'openssl/crypto/x509v3/pcy_data.c',
'openssl/crypto/x509v3/pcy_lib.c',
'openssl/crypto/x509v3/pcy_map.c',
'openssl/crypto/x509v3/pcy_node.c',
'openssl/crypto/x509v3/pcy_tree.c',
'openssl/crypto/x509v3/v3_addr.c',
'openssl/crypto/x509v3/v3_admis.c',
'openssl/crypto/x509v3/v3_akey.c',
'openssl/crypto/x509v3/v3_akeya.c',
'openssl/crypto/x509v3/v3_alt.c',
'openssl/crypto/x509v3/v3_asid.c',
'openssl/crypto/x509v3/v3_bcons.c',
'openssl/crypto/x509v3/v3_bitst.c',
'openssl/crypto/x509v3/v3_conf.c',
'openssl/crypto/x509v3/v3_cpols.c',
'openssl/crypto/x509v3/v3_crld.c',
'openssl/crypto/x509v3/v3_enum.c',
'openssl/crypto/x509v3/v3_extku.c',
'openssl/crypto/x509v3/v3_genn.c',
'openssl/crypto/x509v3/v3_ia5.c',
'openssl/crypto/x509v3/v3_info.c',
'openssl/crypto/x509v3/v3_int.c',
'openssl/crypto/x509v3/v3_lib.c',
'openssl/crypto/x509v3/v3_ncons.c',
'openssl/crypto/x509v3/v3_pci.c',

```
  'openssl/crypto/x509v3/v3_pcia.c',
    'openssl/crypto/x509v3/v3_pcons.c',
    'openssl/crypto/x509v3/v3_pku.c',
    'openssl/crypto/x509v3/v3_pmaps.c',
    'openssl/crypto/x509v3/v3_prn.c',
    'openssl/crypto/x509v3/v3_purp.c',
    'openssl/crypto/x509v3/v3_skey.c',
    'openssl/crypto/x509v3/v3_sxnet.c',
    'openssl/crypto/x509v3/v3_tlsf.c',
    'openssl/crypto/x509v3/v3_utl.c',
    'openssl/crypto/x509v3/v3err.c',
    'openssl/engines/e_capi.c',
    'openssl/engines/e_padlock.c',
  ],
  'openssl_sources_BSD-x86': [
  ],
  'openssl_defines_BSD-x86': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_PIC',
  ],
  'openssl_cflags_BSD-x86': [
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
 },
 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
 ],
 'defines': ['<@(openssl_defines_BSD-x86)'],
  'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
}
```

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  'openssl/crypto/x509v3/pcy_tree.c',
  'openssl/crypto/x509v3/v3_addr.c',
  'openssl/crypto/x509v3/v3_admis.c',
   'openssl/crypto/x509v3/v3_akey.c',
  'openssl/crypto/x509v3/v3_akeya.c',
  'openssl/crypto/x509v3/v3_alt.c',
  'openssl/crypto/x509v3/v3_asid.c',
  'openssl/crypto/x509v3/v3_bcons.c',
  'openssl/crypto/x509v3/v3_bitst.c',
  'openssl/crypto/x509v3/v3_conf.c',
  'openssl/crypto/x509v3/v3_cpols.c',
  'openssl/crypto/x509v3/v3_crld.c',
  'openssl/crypto/x509v3/v3_enum.c',
  'openssl/crypto/x509v3/v3_extku.c',
  'openssl/crypto/x509v3/v3_genn.c',
  'openssl/crypto/x509v3/v3_ia5.c',
  'openssl/crypto/x509v3/v3_info.c',
  'openssl/crypto/x509v3/v3_int.c',
  'openssl/crypto/x509v3/v3_lib.c',
  'openssl/crypto/x509v3/v3_ncons.c',
  'openssl/crypto/x509v3/v3_pci.c',
  'openssl/crypto/x509v3/v3_pcia.c',
  'openssl/crypto/x509v3/v3_pcons.c',
  'openssl/crypto/x509v3/v3_pku.c',
  'openssl/crypto/x509v3/v3_pmaps.c',
  'openssl/crypto/x509v3/v3_prn.c',
  'openssl/crypto/x509v3/v3_purp.c',
   'openssl/crypto/x509v3/v3_skey.c',
  'openssl/crypto/x509v3/v3_sxnet.c',
  'openssl/crypto/x509v3/v3_tlsf.c',
  'openssl/crypto/x509v3/v3_utl.c',
  'openssl/crypto/x509v3/v3err.c',
  'openssl/engines/e_capi.c',
  'openssl/engines/e_padlock.c',
],
'openssl_sources_BSD-x86_64': [
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/vpaes-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx2.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont5.s',
```

```
  './config/archs/BSD-x86_64/asm_avx2/crypto/camellia/cmll-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/chacha/chacha-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/ec/ecp_nistz256-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/ec/x25519-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/md5/md5-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/modes/aesni-gcm-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/modes/ghash-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/poly1305/poly1305-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-md5-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/keccak1600-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/whrlpool/wp-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/x86_64cpuid.s',
  './config/archs/BSD-x86_64/asm_avx2/engines/e_padlock-x86_64.s',
],
'openssl_defines_BSD-x86_64': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_PIC',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
  'OPENSSL_BN_ASM_GF2m',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'KECCAK1600_ASM',
  'RC4_ASM',
  'MD5_ASM',
  'AESNI_ASM',
  'VPAES_ASM',
  'GHASH_ASM',
  'ECP_NISTZ256_ASM',
  'X25519_ASM',
  'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
  '-Wa,--noexecstack',
  '-Wall -O3',
  '-pthread',
  '-Wall -O3',
```

```
 ],
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
 },
 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
 ],
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}
```

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```
{
 'variables': {
  'openssl_defines_BSD-x86': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_PIC',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_BN_ASM_PART_WORDS',
    'OPENSSL_IA32_SSE2',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_GF2m',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'RC4_ASM',
    'MD5_ASM',
    'RMD160_ASM',
    'AESNI_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'GHASH_ASM',
    'ECP_NISTZ256_ASM',
    'POLY1305_ASM',
  ],
  'openssl_cflags_BSD-x86': [
```

```
  '-Wa,--noexecstack',
  '-Wall -O3 -fomit-frame-pointer',
  '-pthread',
  '-Wall -O3 -fomit-frame-pointer',
 ],
 'openssl_ex_libs_BSD-x86': [
  '-pthread',
 ],
 'openssl_cli_srcs_BSD-x86': [
  'openssl/apps/asn1pars.c',
  'openssl/apps/ca.c',
  'openssl/apps/ciphers.c',
  'openssl/apps/cms.c',
  'openssl/apps/crl.c',
  'openssl/apps/crl2p7.c',
  'openssl/apps/dgst.c',
  'openssl/apps/dhparam.c',

 'openssl/apps/dsa.c',
  'openssl/apps/dsaparam.c',
  'openssl/apps/ec.c',
  'openssl/apps/ecparam.c',
  'openssl/apps/enc.c',
  'openssl/apps/engine.c',
  'openssl/apps/errstr.c',
  'openssl/apps/gendsa.c',
  'openssl/apps/genpkey.c',
  'openssl/apps/genrsa.c',
  'openssl/apps/nseq.c',
  'openssl/apps/ocsp.c',
  'openssl/apps/openssl.c',
  'openssl/apps/passwd.c',
  'openssl/apps/pkcs12.c',
  'openssl/apps/pkcs7.c',
  'openssl/apps/pkcs8.c',
  'openssl/apps/pkey.c',
  'openssl/apps/pkeyparam.c',
  'openssl/apps/pkeyutl.c',
  'openssl/apps/prime.c',
  'openssl/apps/rand.c',
  'openssl/apps/rehash.c',
  'openssl/apps/req.c',
  'openssl/apps/rsa.c',
  'openssl/apps/rsautl.c',
  'openssl/apps/s_client.c',
  'openssl/apps/s_server.c',
  'openssl/apps/s_time.c',
  'openssl/apps/sess_id.c',
```

```
    'openssl/apps/smime.c',
    'openssl/apps/speed.c',
    'openssl/apps/spkac.c',
     'openssl/apps/srp.c',
    'openssl/apps/storeutl.c',
    'openssl/apps/ts.c',
    'openssl/apps/verify.c',
    'openssl/apps/version.c',
    'openssl/apps/x509.c',
    'openssl/apps/app_rand.c',
    'openssl/apps/apps.c',
    'openssl/apps/bf_prefix.c',
    'openssl/apps/opt.c',
    'openssl/apps/s_cb.c',
    'openssl/apps/s_socket.c',
  ],
 },
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'include_dirs': [
   './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}
```

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
```

```
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
```

```
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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  'openssl/engines/e_padlock.c',
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  './config/archs/BSD-x86/asm/crypto/aes/vpaes-x86.s',
  './config/archs/BSD-x86/asm/crypto/bf/bf-586.s',
  './config/archs/BSD-x86/asm/crypto/bn/bn-586.s',
  './config/archs/BSD-x86/asm/crypto/bn/co-586.s',
  './config/archs/BSD-x86/asm/crypto/bn/x86-gf2m.s',
  './config/archs/BSD-x86/asm/crypto/bn/x86-mont.s',
  './config/archs/BSD-x86/asm/crypto/camellia/cmll-x86.s',
  './config/archs/BSD-x86/asm/crypto/chacha/chacha-x86.s',
  './config/archs/BSD-x86/asm/crypto/des/crypt586.s',
  './config/archs/BSD-x86/asm/crypto/des/des-586.s',
  './config/archs/BSD-x86/asm/crypto/ec/ecp_nistz256-x86.s',
  './config/archs/BSD-x86/asm/crypto/md5/md5-586.s',
  './config/archs/BSD-x86/asm/crypto/modes/ghash-x86.s',
  './config/archs/BSD-x86/asm/crypto/poly1305/poly1305-x86.s',
   './config/archs/BSD-x86/asm/crypto/rc4/rc4-586.s',
  './config/archs/BSD-x86/asm/crypto/ripemd/rmd-586.s',
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  './config/archs/BSD-x86/asm/crypto/whrlpool/wp-mmx.s',
  './config/archs/BSD-x86/asm/crypto/x86cpuid.s',
  './config/archs/BSD-x86/asm/engines/e_padlock-x86.s',
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'openssl_defines_BSD-x86': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_PIC',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_BN_ASM_PART_WORDS',
  'OPENSSL_IA32_SSE2',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_GF2m',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'RC4_ASM',
  'MD5_ASM',
  'RMD160_ASM',
  'AESNI_ASM',
  'VPAES_ASM',
  'WHIRLPOOL_ASM',
  'GHASH_ASM',
  'ECP_NISTZ256_ASM',
  'POLY1305_ASM',
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'openssl_cflags_BSD-x86': [
```

```
    '-Wa,--noexecstack',
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
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 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
 ],
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
}
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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1.584 mtd-utils 2.1.2

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1.588 ccache 4.2.1

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~~~~~~~~~~~~~~~~~~~~~~~~~~~

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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
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product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

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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 the same way through the same place at no
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copy the object code is a network server, the Corresponding Source
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1.589 libnewt 0.52.21

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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.

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If distribution of object code is made by offering access to copy

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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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1.590 gnu-efi 3.0.12

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* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/lib/ia32/setjmp.S
* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/lib/aarch64/setjmp.S
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/** @file
EFI_SHELL_PARAMETERS_PROTOCOL as defined in the UEFI Shell 2.0 specification.

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Building EFI Applications Using the GNU Toolchain

David Mosberger <davidm@hpl.hp.com>

23 September 1999

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Last update: 04/09/2007

* Introduction

This document has two parts: the first part describes how to develop
EFI applications for IA-64,x86 and x86_64 using the GNU toolchain and the EFI
development environment contained in this directory. The second part
describes some of the more subtle aspects of how this development
environment works.

* Part 1: Developing EFI Applications

** Prerequisites:

To develop x86 and x86_64 EFI applications, the following tools are needed:

- gcc-3.0 or newer (gcc 2.7.2 is NOT sufficient!)
  As of gnu-efi-3.0b, the Redhat 8.0 toolchain is known to work,
  but the Redhat 9.0 toolchain
is not currently supported.

- A version of "objcopy" that supports EFI applications. To
  check if your version includes EFI support, issue the
  command:

  objcopy --help

  Verify that the line "supported targets" contains the string
  "efi-app-ia32" and "efi-app-x86_64" and that the "-j" option
  accepts wildcards. The binutils release binutils-2.24
  supports Intel64 EFI and accepts wildcard section names.

- For debugging purposes, it's useful to have a version of
  "objdump" that supports EFI applications as well. This
  allows inspect and disassemble EFI binaries.

To develop IA-64 EFI applications, the following tools are needed:

- A version of gcc newer than July 30th 1999 (older versions
  had problems with generating position independent code).
  As of gnu-efi-3.0b, gcc-3.1 is known to work well.

- A version of "objcopy" that supports EFI applications. To
  check if your version includes EFI support, issue the
  command:

 objcopy --help

  Verify that
the line "supported targets" contains the string
  "efi-app-ia64" and that the "-j" option accepts wildcards.

- For debugging purposes, it's useful to have a version of
  "objdump" that supports EFI applications as well. This
  allows inspect and disassemble EFI binaries.

** Directory Structure

This EFI development environment contains the following
subdirectories:

inc: This directory contains the EFI-related include files. The
 files are taken from Intel's EFI source distribution, except
 that various fixes were applied to make it compile with the
 GNU toolchain.

lib: This directory contains the source code for Intel's EFI library.
 Again, the files are taken from Intel's EFI source
 distribution, with changes to make them compile with the GNU
 toolchain.

gnuefi: This directory contains the glue necessary to convert ELF64
 binaries to EFI binaries. Various runtime code bits, such as
 a self-relocator are included as well. This code has been
 contributed by the
 Hewlett-Packard Company and is distributed
 under the GNU GPL.

apps: This directory contains a few simple EFI test apps.

** Setup

It is necessary to edit the Makefile in the directory containing this
README file before EFI applications can be built. Specifically, you

should verify that macros CC, AS, LD, AR, RANLIB, and OBJCOPY point to the appropriate compiler, assembler, linker, ar, and ranlib binaries, respectively.

If you're working in a cross-development environment, be sure to set macro ARCH to the desired target architecture ("ia32" for x86, "x86_64" for x86_64 and "ia64" for IA-64). For convenience, this can also be done from the make command line (e.g., "make ARCH=ia64").

** Building

To build the sample EFI applications provided in subdirectory "apps", simply invoke "make" in the toplevel directory (the directory containing this README file). This should build lib/libefi.a and gnuefi/libgnuefi.a first and then all the EFI applications such as a apps/t6.efi.

** Running

Just
copy the EFI application (e.g., apps/t6.efi) to the EFI filesystem, boot EFI, and then select "Invoke EFI application" to run the application you want to test. Alternatively, you can invoke the Intel-provided "nshell" application and then invoke your test binary via the command line interface that "nshell" provides.

** Writing Your Own EFI Application

Suppose you have your own EFI application in a file called "apps/myefiapp.c". To get this application built by the GNU EFI build environment, simply add "myefiapp.efi" to macro TARGETS in apps/Makefile. Once this is done, invoke "make" in the top level directory. This should result in EFI application apps/myefiapp.efi, ready for execution.

The GNU EFI build environment allows to write EFI applications as described in Intel's EFI documentation, except for two differences:

- The EFI application's entry point is always called "efi_main". The declaration of this routine is:

```
EFI_STATUS efi_main (EFI_HANDLE image,
EFI_SYSTEM_TABLE *systab);
```

- UNICODE string literals must be written as W2U(L"Sample String")

instead of just L"Sample String". The W2U() macro is defined in <efilib.h>. This header file also declares the function W2UCpy() which allows to convert a wide string into a UNICODE string and store the result in a programmer-supplied buffer.

- Calls to EFI services should be made via uefi_call_wrapper(). This ensures appropriate parameter passing for the architecture.

* Part 2: Inner Workings

WARNING: This part contains all the gory detail of how the GNU EFI toolchain works. Normal users do not have to worry about such details. Reading this part incurs a definite risk of inducing severe headaches or other maladies.

The basic idea behind the GNU EFI build environment is to use the GNU toolchain to build a normal ELF binary that, at the end, is converted to an EFI binary. EFI binaries are really just PE32+ binaries. PE stands for "Portable Executable" and is the object file format Microsoft is using on its Windows platforms. PE is basically the COFF object file format with an MS-DOS2.0 compatible header slapped on in front of it. The "32" in PE32+ stands for 32 bits, meaning that PE32 is a 32-bit object file format. The plus in "PE32+" indicates that this format has been hacked to allow loading a 4GB binary anywhere in a 64-bit address space (unlike ELF64, however, this is not a full 64-bit object file format because the entire binary cannot span more than 4GB of address space). EFI binaries are plain PE32+ binaries except that the "subsystem id" differs from normal Windows binaries. There are two flavors of EFI binaries: "applications" and "drivers" and each has there own subsystem id and are identical otherwise. At present, the GNU EFI build environment supports the building of EFI applications only, though it would be trivial to generate drivers, as the only difference is the subsystem id. For more details on PE32+, see the spec at

http://msdn.microsoft.com/library/specs/msdn_pecoff.htm.

In theory, converting a suitable ELF64 binary to PE32+ is easy and could be accomplished with the "objcopy" utility by specifying option --target=efi-app-ia32 (x86) or --target=efi-app-ia64 (IA-64). But life never is that easy, so here some complicating factors:

(1) COFF sections are very different from ELF sections.

ELF binaries distinguish between program headers and sections.

The program headers describe the memory segments that need to
be loaded/initialized, whereas the sections describe what
constitutes those segments. In COFF (and therefore PE32+) no
such distinction is made. Thus, COFF sections need to be page
aligned and have a size that is a multiple of the page size
(4KB for EFI), whereas ELF allows sections at arbitrary
addresses and with arbitrary sizes.

(2) EFI binaries should be relocatable.

Since EFI binaries are executed in physical mode, EFI cannot
guarantee that a given binary can be loaded at
its preferred
address. EFI does _try_ to load a binary at it's preferred
address, but if it can't do so, it will load it at another
address and then relocate the binary using the contents of the
.reloc section.

(3) On IA-64, the EFI entry point needs to point to a function
descriptor, not to the code address of the entry point.

(4) The EFI specification assumes that wide characters use UNICODE
encoding.

ANSI C does not specify the size or encoding that a wide
character uses. These choices are "implementation defined".
On most UNIX systems, the GNU toolchain uses a wchar_t that is
4 bytes in size. The encoding used for such characters is
(mostly) UCS4.

In the following sections, we address how the GNU EFI build
environment addresses each of these issues.

** (1) Accommodating COFF Sections

In order to satisfy the COFF constraint of page-sized and page-aligned
sections, the GNU EFI build environment uses the special linker script
in gnuefi/elf_$(ARCH)_efi.lds
where $(ARCH) is the target architecture
("ia32" for x86, "x86_64" for x86_64 and "ia64" for IA-64).
This script is set up to create only eight COFF section, each page aligned
and page sized.These eight sections are used to group together the much
greater number of sections that are typically present in ELF object files.
Specifically:

.hash (and/or .gnu.hash)
Collects the ELF .hash info (this section _must_ be the first

section in order to build a shared object file; the section is
not actually loaded or used at runtime).

GNU binutils provides a mechanism to generate different hash info
via --hash-style=<sysv|gnu|both> option. In this case output
shared object will contain .hash section, .gnu.hash section or
both. In order to generate correct output linker script preserves
both types of hash sections.

.text
Collects all sections containing executable code.

.data
Collects read-only and read-write data, literal string data,
global offset tables, the uninitialized data
segment (bss) and
various other sections containing data.

The reason read-only data is placed here instead of the in
.text is to make it possible to disassemble the .text section
without getting garbage due to read-only data. Besides, since
EFI binaries execute in physical mode, differences in page
protection do not matter.

The reason the uninitialized data is placed in this section is
that the EFI loader appears to be unable to handle sections
that are allocated but not loaded from the binary.

.dynamic, .dynsym, .rela, .rel, .reloc
These sections contains the dynamic information necessary to
self-relocate the binary (see below).

A couple of more points worth noting about the linker script:

o On IA-64, the global pointer symbol (__gp) needs to be placed such
that the _entire_ EFI binary can be addressed using the signed
22-bit offset that the "addl" instruction affords. Specifically,
this means that __gp should be placed at ImageBase + 0x200000.
Strictly
speaking, only a couple of symbols need to be addressable
in this fashion, so with some care it should be possible to build
binaries much larger than 4MB. To get a list of symbols that need
to be addressable in this fashion, grep the assembly files in
directory gnuefi for the string "@gprel".

o The link address (ImageBase) of the binary is (arbitrarily) set to
zero. This could be set to something larger to increase the chance
of EFI being able to load the binary without requiring relocation.

However, a start address of 0 makes debugging a wee bit easier
(great for those of us who can add, but not subtract... ;-).

o The relocation related sections (.dynamic, .rel, .rela, .reloc)
cannot be placed inside .data because some tools in the GNU
toolchain rely on the existence of these sections.

o Some sections in the ELF binary intentionally get dropped when
building the EFI binary. Particularly noteworthy are the dynamic
relocation sections for
the .plabel and .reloc sections. It would
be _wrong_ to include these sections in the EFI binary because it
would result in .reloc and .plabel being relocated twice (once by
the EFI loader and once by the self-relocator; see below for a
description of the latter). Specifically, only the sections
mentioned with the -j option in the final "objcopy" command are
retained in the EFI binary (see Make.rules).

** (2) Building Relocatable Binaries

ELF binaries are normally linked for a fixed load address and are thus
not relocatable. The only kind of ELF object that is relocatable are
shared objects ("shared libraries"). However, even those objects are
usually not completely position independent and therefore require
runtime relocation by the dynamic loader. For example, IA-64 binaries
normally require relocation of the global offset table.

The approach to building relocatable binaries in the GNU EFI build
environment is to:

(a) build an ELF shared object

(b) link
it together with a self-relocator that takes care of
applying the dynamic relocations that may be present in the
ELF shared object

(c) convert the resulting image to an EFI binary

The self-relocator is of course architecture dependent. The x86
version can be found in gnuefi/reloc_ia32.c, the x86_64 version
can be found in gnuefi/reloc_x86_64.c and the IA-64 version can be
found in gnuefi/reloc_ia64.S.

The self-relocator operates as follows: the startup code invokes it
right after EFI has handed off control to the EFI binary at symbol
"_start". Upon activation, the self-relocator searches the .dynamic

section (whose starting address is given by symbol _DYNAMIC) for the
dynamic relocation information, which can be found in the DT_REL,
DT_RELSZ, and DT_RELENT entries of the dynamic table (DT_RELA,
DT_RELASZ, and DT_RELAENT in the case of rela relocations, as is the
case for IA-64). The dynamic relocation information points to the ELF
relocation table. Once this table is
found, the self-relocator walks
through it, applying each relocation one by one. Since the EFI
binaries are fully resolved shared objects, only a subset of all
possible relocations need to be supported. Specifically, on x86 only
the R_386_RELATIVE relocation is needed. On IA-64, the relocations
R_IA64_DIR64LSB, R_IA64_REL64LSB, and R_IA64_FPTR64LSB are needed.
Note that the R_IA64_FPTR64LSB relocation requires access to the
dynamic symbol table. This is why the .dynsym section is included in
the EFI binary. Another complication is that this relocation requires
memory to hold the function descriptors (aka "procedure labels" or
"plabels"). Each function descriptor uses 16 bytes of memory. The
IA-64 self-relocator currently reserves a static memory area that can
hold 100 of these descriptors. If the self-relocator runs out of
space, it causes the EFI binary to fail with error code 5
(EFI_BUFFER_TOO_SMALL). When this happens, the manifest constant
MAX_FUNCTION_DESCRIPTORS in gnuefi/reloc_ia64.S
should be increased
and the application recompiled. An easy way to count the number of
function descriptors required by an EFI application is to run the
command:

```
objdump --dynamic-reloc example.so | fgrep FPTR64 | wc -l
```

assuming "example" is the name of the desired EFI application.

** (3) Creating the Function Descriptor for the IA-64 EFI Binaries

As mentioned above, the IA-64 PE32+ format assumes that the entry
point of the binary is a function descriptor. A function descriptors
consists of two double words: the first one is the code entry point
and the second is the global pointer that should be loaded before
calling the entry point. Since the ELF toolchain doesn't know how to
generate a function descriptor for the entry point, the startup code
in gnuefi/crt0-efi-ia64.S crafts one manually by with the code:

```
        .section .plabel, "a"
_start_plabel:
        data8   _start
        data8   __gp
```

this places the procedure label for entry point _start in

a section
called ".plabel". Now, the only problem is that _start and __gp need
to be relocated _before_ EFI hands control over to the EFI binary.
Fortunately, PE32+ defines a section called ".reloc" that can achieve
this. Thus, in addition to manually crafting the function descriptor,
the startup code also crafts a ".reloc" section that has will cause
the EFI loader to relocate the function descriptor before handing over
control to the EFI binary (again, see the PECOFF spec mentioned above
for details).

A final question may be why .plabel and .reloc need to go in their own
COFF sections. The answer is simply: we need to be able to discard
the relocation entries that are generated for these sections. By
placing them in these sections, the relocations end up in sections
".rela.plabel" and ".rela.reloc" which makes it easy to filter them
out in the filter script. Also, the ".reloc" section needs to be in
its own section so that the objcopy program can recognize it and can
create the
correct directory entries in the PE32+ binary.

** (4) Convenient and Portable Generation of UNICODE String Literals

As of gnu-efi-3.0, we make use (and somewhat abuse) the gcc option
that forces wide characters (WCHAR_T) to use short integers (2 bytes)
instead of integers (4 bytes). This way we match the Unicode character
size. By abuse, we mean that we rely on the fact that the regular ASCII
characters are encoded the same way between (short) wide characters
and Unicode and basically only use the first byte. This allows us
to just use them interchangeably.

The gcc option to force short wide characters is : -fshort-wchar

* * * The End * * *

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*
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* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/inc/protocol/efidbg.h
* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/inc/protocol/ia64/eficontext.h

1.591 python3-markupsafe 1.1.1

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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)
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	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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

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

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

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

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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
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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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procfs provides functions to retrieve system, kernel and process
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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.600 grub2 2.04+2.06~rc1

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*/

#ifndef GRUB_BSD_CPU_HEADER
#define GRUB_BSD_CPU_HEADER 1

#include <grub/types.h>
#include <grub/relocator.h>

#include <grub/i386/freebsd_reboot.h>
#include <grub/i386/netbsd_reboot.h>
#include <grub/i386/openbsd_reboot.h>
#include <grub/i386/freebsd_linker.h>
#include
 <grub/i386/netbsd_bootinfo.h>
#include <grub/i386/openbsd_bootarg.h>

enum bsd_kernel_types
 {
   KERNEL_TYPE_NONE,
   KERNEL_TYPE_FREEBSD,
   KERNEL_TYPE_OPENBSD,
   KERNEL_TYPE_NETBSD,
 };

#define GRUB_BSD_TEMP_BUFFER   0x80000

#define FREEBSD_B_DEVMAGIC OPENBSD_B_DEVMAGIC
#define FREEBSD_B_SLICESHIFT OPENBSD_B_CTRLSHIFT
#define FREEBSD_B_UNITSHIFT OPENBSD_B_UNITSHIFT
#define FREEBSD_B_PARTSHIFT OPENBSD_B_PARTSHIFT
#define FREEBSD_B_TYPESHIFT OPENBSD_B_TYPESHIFT

#define FREEBSD_MODTYPE_KERNEL  "elf kernel"
#define FREEBSD_MODTYPE_KERNEL64 "elf64 kernel"
#define FREEBSD_MODTYPE_ELF_MODULE "elf module"
#define FREEBSD_MODTYPE_ELF_MODULE_OBJ "elf obj module"
#define FREEBSD_MODTYPE_RAW  "raw"
```

```
#define FREEBSD_BOOTINFO_VERSION 1

struct grub_freebsd_bootinfo
{
 grub_uint32_t version;
 grub_uint8_t unused1[44];
 grub_uint32_t length;
 grub_uint8_t unused2;
 grub_uint8_t boot_device;
 grub_uint8_t unused3[18];
 grub_uint32_t kern_end;
 grub_uint32_t environment;
  grub_uint32_t tags;
} GRUB_PACKED;

struct freebsd_tag_header
{
 grub_uint32_t type;
 grub_uint32_t len;
};

grub_err_t grub_freebsd_load_elfmodule32 (struct grub_relocator *relocator,
       grub_file_t file, int argc,
       char *argv[], grub_addr_t *kern_end);
grub_err_t grub_freebsd_load_elfmodule_obj64 (struct grub_relocator *relocator,
           grub_file_t file, int argc,
           char *argv[],
           grub_addr_t *kern_end);
grub_err_t grub_freebsd_load_elf_meta32 (struct grub_relocator *relocator,
      grub_file_t file,
      const char *filename,
      grub_addr_t *kern_end);
grub_err_t grub_freebsd_load_elf_meta64 (struct grub_relocator *relocator,
      grub_file_t file,
      const char *filename,
      grub_addr_t *kern_end);

grub_err_t grub_netbsd_load_elf_meta32 (struct grub_relocator *relocator,
     grub_file_t file,
     const char *filename,
     grub_addr_t *kern_end);
grub_err_t grub_netbsd_load_elf_meta64 (struct grub_relocator *relocator,
     grub_file_t
 file,
     const char *filename,
     grub_addr_t *kern_end);
```

```
grub_err_t grub_bsd_add_meta (grub_uint32_t type,
        const void *data, grub_uint32_t len);
grub_err_t grub_freebsd_add_meta_module (const char *filename, const char *type,
      int argc, char **argv,
      grub_addr_t addr, grub_uint32_t size);

struct grub_openbsd_ramdisk_descriptor
{
 grub_size_t max_size;
 grub_uint8_t *target;
 grub_uint32_t *size;
};

grub_err_t grub_openbsd_find_ramdisk32 (grub_file_t file,
     const char *filename,
     grub_addr_t kern_start,
     void *kern_chunk_src,
     struct grub_openbsd_ramdisk_descriptor *desc);
grub_err_t grub_openbsd_find_ramdisk64 (grub_file_t file,
     const char *filename,
     grub_addr_t kern_start,
     void *kern_chunk_src,
     struct grub_openbsd_ramdisk_descriptor *desc);

extern grub_uint8_t grub_bsd64_trampoline_start, grub_bsd64_trampoline_end;
extern grub_uint32_t grub_bsd64_trampoline_selfjump;
extern grub_uint32_t grub_bsd64_trampoline_gdt;

#endif
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