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1.1 bzip2 1.0.6

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

1.2 net-snmp 5.7.3

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1.4 sysfsutils 2.1.0

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1.5 zeromq 4.0.4

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1.6 curl 7.54.1

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1.7 boost 1.58.0

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collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
 experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

1.8 readline 6.3

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1.9 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
Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*
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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
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1.10 lzo 2.10

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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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language. (Hereinafter, translation is
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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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If distribution of object code is made by offering access to copy

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

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

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

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

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

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

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

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

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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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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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1.13 curl 7.61.0

1.14 libwww 5.4.2

1.14.1 Available under license :

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with the library, after making changes to the library and recompiling
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The reason we have a separate public license for some libraries is that
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analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
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and the ordinary General Public License
treats it as such.

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

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

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

Thus, it is not the intent of this section to claim rights or contest
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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.

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

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

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

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

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1.15 libxml2 2.9.9

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1.16 berkeley-db 6.0.30

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*
* Id
*/

#include "db_config.h"

#include
 "db_int.h"
#include "dbinc/blob.h"
#include "dbinc/crypto.h"
#include "dbinc/db_page.h"
#include "dbinc/db_swap.h"
#include "dbinc/btree.h"
#include "dbinc/lock.h"
#include "dbinc/mp.h"
#include "dbinc/partition.h"
#include "dbinc/fop.h"

static void __bam_init_meta __P((DB *, BTMETA *, db_pgno_t, DB_LSN *));

/*

```
* __bam_open --
* Open a btree.
*
* PUBLIC: int __bam_open __P((DB *, DB_THREAD_INFO *,
* PUBLIC:      DB_TXN *, const char *, db_pgno_t, u_int32_t));
*/
int
__bam_open(dbp, ip, txn, name, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 const char *name;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTREE *t;

 COMPQUIET(name, NULL);
 t = dbp->bt_internal;

 /*
  * We don't permit the user to specify a prefix routine if they didn't
  * also specify a comparison routine, they can't know enough about our
  * comparison routine to get it right.
  */
 if (t->bt_compare == __bam_defcmp && t->bt_prefix != __bam_defpfx)
 {
  __db_errx(dbp->env, DB_STR("1006",
"prefix comparison may not be specified for default comparison routine"));
  return (EINVAL);
 }

 /*
  * Verify that the bt_minkey value specified won't cause the
  * calculation of ovflsize to underflow [#2406] for this pagesize.
  */
 if (B_MINKEY_TO_OVFLSIZE(dbp, t->bt_minkey, dbp->pgsize) >
     B_MINKEY_TO_OVFLSIZE(dbp, DEFMINKEYPAGE, dbp->pgsize)) {
  __db_errx(dbp->env, DB_STR_A("1007",
      "bt_minkey value of %lu too high for page size of %lu",
      "%lu %lu"), (u_long)t->bt_minkey, (u_long)dbp->pgsize);
  return (EINVAL);
 }

 /* Start up the tree. */
 return (__bam_read_root(dbp, ip, txn, base_pgno, flags));
}
```

```
/*
* __bam_metachk --
*
* PUBLIC: int __bam_metachk __P((DB *, const char *, BTMETA *));
*/
int
__bam_metachk(dbp, name, btm)
 DB *dbp;
 const char *name;
 BTMETA *btm;
{
 ENV *env;
 u_int32_t vers;
 int ret;

 env = dbp->env;
 ret = 0;

 /*
  * At this point, all we know
 is that the magic number is for a Btree.
  * Check the version, the database may be out of date.
  */
 vers = btm->dbmeta.version;
 if (F_ISSET(dbp, DB_AM_SWAP))
  M_32_SWAP(vers);
 switch (vers) {
 case 6:
 case 7:
  __db_errx(env, DB_STR_A("1008",
      "%s: btree version %lu requires a version upgrade",
      "%s %lu"), name, (u_long)vers);
  return (DB_OLD_VERSION);
 case 8:
 case 9:
 case 10:
  break;
 default:
  __db_errx(env, DB_STR_A("1009",
      "%s: unsupported btree version: %lu", "%s %lu"),
      name, (u_long)vers);
  return (EINVAL);
 }

 /* Swap the page if we need to. */
 if (F_ISSET(dbp, DB_AM_SWAP) &&
     (ret = __bam_mswap(env, (PAGE *)btm)) != 0)
  return (ret);
```

```
/*
 * Check application info against metadata info, and set info, flags,
 * and type based on metadata info.
 */
if ((ret =
    __db_fchk(env, "DB->open", btm->dbmeta.flags, BTM_MASK)) != 0)
 return (ret);

if (F_ISSET(&btm->dbmeta, BTM_RECNO)) {
 if (dbp->type
== DB_BTREE)
  goto wrong_type;
 dbp->type = DB_RECNO;
 DB_ILLEGAL_METHOD(dbp, DB_OK_RECNO);
} else {
 if (dbp->type == DB_RECNO)
  goto wrong_type;
 dbp->type = DB_BTREE;
 DB_ILLEGAL_METHOD(dbp, DB_OK_BTREE);
}

if (F_ISSET(&btm->dbmeta, BTM_DUP))
 F_SET(dbp, DB_AM_DUP);
else
 if (F_ISSET(dbp, DB_AM_DUP)) {
  __db_errx(env, DB_STR_A("1010",
 "%s: DB_DUP specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RECNUM)) {
 if (dbp->type != DB_BTREE)
  goto wrong_type;
 F_SET(dbp, DB_AM_RECNUM);

 if ((ret = __db_fcchk(env,
     "DB->open", dbp->flags, DB_AM_DUP, DB_AM_RECNUM)) != 0)
  return (ret);
} else
 if (F_ISSET(dbp, DB_AM_RECNUM)) {
  __db_errx(env, DB_STR_A("1011",
    "%s: DB_RECNUM specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }
```

```
if (F_ISSET(&btm->dbmeta, BTM_FIXEDLEN)) {
 if (dbp->type != DB_RECNO)
  goto
wrong_type;
 F_SET(dbp, DB_AM_FIXEDLEN);
} else
 if (F_ISSET(dbp, DB_AM_FIXEDLEN)) {
  __db_errx(env, DB_STR_A("1012",
"%s: DB_FIXEDLEN specified to open method but not set in database",
  "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RENUMBER)) {
 if (dbp->type != DB_RECNO)
  goto wrong_type;
 F_SET(dbp, DB_AM_RENUMBER);
} else
 if (F_ISSET(dbp, DB_AM_RENUMBER)) {
  __db_errx(env, DB_STR_A("1013",
    "%s: DB_RENUMBER specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_SUBDB))
 F_SET(dbp, DB_AM_SUBDB);
else
 if (F_ISSET(dbp, DB_AM_SUBDB)) {
  __db_errx(env, DB_STR_A("1014",
    "%s: multiple databases specified but not supported by file",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_DUPSORT)) {
 if (dbp->dup_compare == NULL)
  dbp->dup_compare = __bam_defcmp;
 F_SET(dbp, DB_AM_DUPSORT);
}
else
 if (dbp->dup_compare != NULL) {
  __db_errx(env, DB_STR_A("1015",
 "%s: duplicate sort specified but not supported in database",
      "%s"), name);
  return (EINVAL);
 }
```

```
#ifdef HAVE_COMPRESSION
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  F_SET(dbp, DB_AM_COMPRESS);
  if ((BTREE *)dbp->bt_internal != NULL &&
      !DB_IS_COMPRESSED(dbp) &&
      (ret = __bam_set_bt_compress(dbp, NULL, NULL)) != 0)
   return (ret);
 } else {
  if ((BTREE *)dbp->bt_internal != NULL &&
      DB_IS_COMPRESSED(dbp)) {
   __db_errx(env, DB_STR_A("1016",
 "%s: compresssion specified to open method but not set in database",
       "%s"), name);
   return (EINVAL);
  }
 }
#else
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  __db_errx(env, DB_STR_A("1017",
      "%s: compression support has not been compiled in", "%s"),
      name);
  return (EINVAL);
 }
#endif

 /* Set the page size. */
 dbp->pgsize = btm->dbmeta.pagesize;

 dbp->blob_threshold = btm->blob_threshold;
 GET_BLOB_FILE_ID(env,
 btm, dbp->blob_file_id, ret);
 if (ret != 0)
  return (ret);
 GET_BLOB_SDB_ID(env, btm, dbp->blob_sdb_id, ret);
 if (ret != 0)
  return (ret);
 /* Blob databases must be upgraded. */
 if (vers == 9 && (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0)) {
     __db_errx(env, DB_STR_A("1207",
"%s: databases that support blobs must be upgraded.", "%s"),
      name);
  return (EINVAL);
 }
#ifndef HAVE_64BIT_TYPES
 if (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0) {
  __db_errx(env, DB_STR_A("1199",
      "%s: blobs require 64 integer compiler support.", "%s"),
      name);
```

```
 return (EINVAL);
 }
#endif

 /* Copy the file's ID. */
 memcpy(dbp->fileid, btm->dbmeta.uid, DB_FILE_ID_LEN);

 return (0);

wrong_type:
 if (dbp->type == DB_BTREE)
  __db_errx(env, DB_STR("1018",
     "open method type is Btree, database type is Recno"));
 else
  __db_errx(env, DB_STR("1019",
     "open method type is Recno, database type is Btree"));
 return
 (EINVAL);
 }

/*
* __bam_read_root --
* Read the root page and check a tree.
*
* PUBLIC: int __bam_read_root __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, db_pgno_t, u_int32_t));
*/
int
__bam_read_root(dbp, ip, txn, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTMETA *meta;
 BTREE *t;
 DBC *dbc;
 DB_LOCK metalock;
 DB_MPOOLFILE *mpf;
 int ret, t_ret;

 COMPQUIET(flags, 0);

 meta = NULL;
 t = dbp->bt_internal;
 LOCK_INIT(metalock);
 mpf = dbp->mpf;
```

```
ret = 0;

/* Get a cursor.  */
if ((ret = __db_cursor(dbp, ip, txn, &dbc,
    F_ISSET(dbp, DB_AM_RECOVER) ? DB_RECOVER : 0)) != 0)
 return (ret);

/* Get the metadata page. */
if ((ret =
    __db_lget(dbc, 0, base_pgno, DB_LOCK_READ, 0, &metalock)) != 0)
 goto err;
if ((ret = __memp_fget(mpf, &base_pgno, ip, dbc->txn, 0, &meta)) != 0)
 goto err;

/*
 * If the magic number is set, the tree has been
created.  Correct
 * any fields that may not be right.  Note, all of the local flags
 * were set by DB->open.
 *
 * Otherwise, we'd better be in recovery or abort, in which case the
 * metadata page will be created/initialized elsewhere.
 *
 * Ignore the last_pgno on the metadata page for snapshot transactions:
 * we may be reading an old version of the page, and we've already
 * set last_pgno from the file size.  The only time this would matter
 * is if we don't have ftruncate and there are some free pages at the
 * end of the file: we could end up with holes.
 */
if (meta->dbmeta.magic == DB_BTREEMAGIC) {
 t->bt_minkey = meta->minkey;
 t->re_pad = (int)meta->re_pad;
 t->re_len = meta->re_len;

 t->bt_meta = base_pgno;
 t->bt_root = meta->root;
 t->revision = dbp->mpf->mfp->revision;
 if (PGNO(meta) == PGNO_BASE_MD &&
     !F_ISSET(dbp, DB_AM_RECOVER) &&
     (txn == NULL || !F_ISSET(txn, TXN_SNAPSHOT)) && (ret =
     __memp_set_last_pgno(mpf,
meta->dbmeta.last_pgno)) != 0)
  goto err;
} else {
 DB_ASSERT(dbp->env,
     IS_RECOVERING(dbp->env) || F_ISSET(dbp, DB_AM_RECOVER));
}
```

```
 /*
  * !!!
  * If creating a subdatabase, we've already done an insert when
  * we put the subdatabase's entry into the master database, so
  * our last-page-inserted value is wrongly initialized for the
  * master database, not the subdatabase we're creating.  I'm not
  * sure where the *right* place to clear this value is, it's not
  * intuitively obvious that it belongs here.
  */
 t->bt_lpgno = PGNO_INVALID;

err: /* Put the metadata page back. */
 if (meta != NULL && (t_ret = __memp_fput(mpf,
     ip, meta, dbc->priority)) != 0 && ret == 0)
  ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;

 if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
  ret = t_ret;
 return (ret);
}

/*
* __bam_init_meta --
*
* Initialize a btree meta-data page.  The following fields may
 need
* to be updated later: last_pgno, root.
*/
static void
__bam_init_meta(dbp, meta, pgno, lsnp)
 DB *dbp;
 BTMETA *meta;
 db_pgno_t pgno;
 DB_LSN *lsnp;
{
 BTREE *t;
#ifdef HAVE_PARTITION
 DB_PARTITION *part;
#endif
 ENV *env;

 env = dbp->env;
 t = dbp->bt_internal;

 memset(meta, 0, sizeof(BTMETA));
 meta->dbmeta.lsn = *lsnp;
```

```
 meta->dbmeta.pgno = pgno;
 meta->dbmeta.magic = DB_BTREEMAGIC;
 meta->dbmeta.version = DB_BTREEVERSION;
 meta->dbmeta.pagesize = dbp->pgsize;
 if (F_ISSET(dbp, DB_AM_CHKSUM))
  FLD_SET(meta->dbmeta.metaflags, DBMETA_CHKSUM);
 if (F_ISSET(dbp, DB_AM_ENCRYPT)) {
  meta->dbmeta.encrypt_alg = env->crypto_handle->alg;
  DB_ASSERT(env, meta->dbmeta.encrypt_alg != 0);
  meta->crypto_magic = meta->dbmeta.magic;
 }
 meta->dbmeta.type = P_BTREEMETA;
 meta->dbmeta.free = PGNO_INVALID;
 meta->dbmeta.last_pgno = pgno;
 if (F_ISSET(dbp, DB_AM_DUP))
  F_SET(&meta->dbmeta, BTM_DUP);
 if (F_ISSET(dbp, DB_AM_FIXEDLEN))
  F_SET(&meta->dbmeta,
 BTM_FIXEDLEN);
 if (F_ISSET(dbp, DB_AM_RECNUM))
  F_SET(&meta->dbmeta, BTM_RECNUM);
 if (F_ISSET(dbp, DB_AM_RENUMBER))
  F_SET(&meta->dbmeta, BTM_RENUMBER);
 if (F_ISSET(dbp, DB_AM_SUBDB))
  F_SET(&meta->dbmeta, BTM_SUBDB);
 if (dbp->dup_compare != NULL)
  F_SET(&meta->dbmeta, BTM_DUPSORT);
#ifdef HAVE_COMPRESSION
 if (DB_IS_COMPRESSED(dbp))
  F_SET(&meta->dbmeta, BTM_COMPRESS);
#endif
 if (dbp->type == DB_RECNO)
  F_SET(&meta->dbmeta, BTM_RECNO);
 memcpy(meta->dbmeta.uid, dbp->fileid, DB_FILE_ID_LEN);

 meta->minkey = t->bt_minkey;
 meta->re_len = t->re_len;
 meta->re_pad = (u_int32_t)t->re_pad;
 meta->blob_threshold = dbp->blob_threshold;
 SET_BLOB_META_FILE_ID(meta, dbp->blob_file_id, BTMETA);
 SET_BLOB_META_SDB_ID(meta, dbp->blob_sdb_id, BTMETA);

#ifdef HAVE_PARTITION
 if ((part = dbp->p_internal) != NULL) {
  meta->dbmeta.nparts = part->nparts;
  if (F_ISSET(part, PART_CALLBACK))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_CALLBACK);
  if (F_ISSET(part,
```

```
 PART_RANGE))
  FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_RANGE);
 }
#endif
}

/*
* __bam_new_file --
* Create the necessary pages to begin a new database file.
*
* This code appears more complex than it is because of the two cases (named
* and unnamed).  The way to read the code is that for each page being created,
* there are three parts: 1) a "get page" chunk (which either uses malloc'd
* memory or calls __memp_fget), 2) the initialization, and 3) the "put page"
* chunk which either does a fop write or an __memp_fput.
*
* PUBLIC: int __bam_new_file __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, DB_FH *, const char *));
*/
int
__bam_new_file(dbp, ip, txn, fhp, name)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 DB_FH *fhp;
 const char *name;
{
 BTMETA *meta;
 DBT pdbt;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 DB_PGINFO pginfo;
 ENV *env;
 PAGE *root;
 db_pgno_t pgno;
 int ret, t_ret;
 void *buf;

 env = dbp->env;
 mpf =
 dbp->mpf;
 root = NULL;
 meta = NULL;
 buf = NULL;

 if (F_ISSET(dbp, DB_AM_INMEM)) {
  /* Build the meta-data page. */
  pgno = PGNO_BASE_MD;
```

```
 if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta)) != 0)
  return (ret);
 LSN_NOT_LOGGED(lsn);
 __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
 meta->root = 1;
 meta->dbmeta.last_pgno = 1;
 if ((ret =
    __db_log_page(dbp, txn, &lsn, pgno, (PAGE *)meta)) != 0)
  goto err;
 ret = __memp_fput(mpf, ip, meta, dbp->priority);
 meta = NULL;
 if (ret != 0)
  goto err;

 /* Build the root page. */
 pgno = 1;
 if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &root)) != 0)
  goto err;
 P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
 LSN_NOT_LOGGED(root->lsn);
 if ((ret =
    __db_log_page(dbp, txn, &root->lsn, pgno, root)) != 0)
  goto err;
 ret =
__memp_fput(mpf, ip, root, dbp->priority);
 root = NULL;
 if (ret != 0)
  goto err;
} else {
 memset(&pdbt, 0, sizeof(pdbt));

 /* Build the meta-data page. */
 pginfo.db_pagesize = dbp->pgsize;
 pginfo.flags =
    F_ISSET(dbp, (DB_AM_CHKSUM | DB_AM_ENCRYPT | DB_AM_SWAP));
 pginfo.type = dbp->type;
 pdbt.data = &pginfo;
 pdbt.size = sizeof(pginfo);
 if (dbp->blob_threshold) {
  if ((ret = __blob_generate_dir_ids(dbp, txn,
     &dbp->blob_file_id)) != 0)
   return (ret);

 }
 if ((ret = __os_calloc(env, 1, dbp->pgsize, &buf)) != 0)
```

```
  return (ret);
 meta = (BTMETA *)buf;
 LSN_NOT_LOGGED(lsn);
 __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
 meta->root = 1;
 meta->dbmeta.last_pgno = 1;
 if ((ret = __db_pgout(
    dbp->dbenv, PGNO_BASE_MD, meta, &pdbt)) != 0)
  goto err;
 if ((ret = __fop_write(env, txn, name, dbp->dirname,
    DB_APP_DATA, fhp,
    dbp->pgsize, 0, 0, buf, dbp->pgsize, 1, F_ISSET(
    dbp, DB_AM_NOT_DURABLE)
 ? DB_LOG_NOT_DURABLE : 0)) != 0)
  goto err;
 meta = NULL;

 /* Build the root page. */
#ifdef DIAGNOSTIC
 memset(buf, CLEAR_BYTE, dbp->pgsize);
#endif
 root = (PAGE *)buf;
 P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
 LSN_NOT_LOGGED(root->lsn);
 if ((ret =
    __db_pgout(dbp->dbenv, root->pgno, root, &pdbt)) != 0)
  goto err;
 if ((ret =
    __fop_write(env, txn, name, dbp->dirname, DB_APP_DATA,
    fhp, dbp->pgsize, 1, 0, buf, dbp->pgsize, 1, F_ISSET(
    dbp, DB_AM_NOT_DURABLE) ? DB_LOG_NOT_DURABLE : 0)) != 0)
  goto err;
 root = NULL;
 }

err: if (buf != NULL)
 __os_free(env, buf);
 else {
 if (meta != NULL &&
    (t_ret = __memp_fput(mpf, ip,
    meta, dbp->priority)) != 0 && ret == 0)
  ret = t_ret;
 if (root != NULL &&
    (t_ret = __memp_fput(mpf, ip,
    root, dbp->priority)) != 0 && ret == 0)
  ret = t_ret;
 }
```

```
 return (ret);
}

/*
 * __bam_new_subdb --
* Create a metadata page and a root page for a new btree.
*
* PUBLIC: int __bam_new_subdb __P((DB *, DB *, DB_THREAD_INFO *, DB_TXN *));
*/
int
__bam_new_subdb(mdbp, dbp, ip, txn)
 DB *mdbp, *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
{
 BTMETA *meta;
 DBC *dbc;
 DB_LOCK metalock;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 ENV *env;
 PAGE *root;
 int ret, t_ret;

 env = mdbp->env;
 mpf = mdbp->mpf;
 dbc = NULL;
 meta = NULL;
 root = NULL;

 if (dbp->blob_threshold) {
  if ((ret = __blob_generate_dir_ids(dbp, txn,
      &dbp->blob_sdb_id)) != 0)
   return (ret);
 }

 if ((ret = __db_cursor(mdbp, ip, txn,
    &dbc, CDB_LOCKING(env) ?  DB_WRITECURSOR : 0)) != 0)
  return (ret);

 /* Get, and optionally create the metadata page. */
 if ((ret = __db_lget(dbc,
    0, dbp->meta_pgno, DB_LOCK_WRITE, 0, &metalock)) != 0)
  goto err;
 if ((ret = __memp_fget(mpf, &dbp->meta_pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta))
 != 0)
  goto err;
```

```
 /* Build meta-data page. */
 lsn = meta->dbmeta.lsn;
 __bam_init_meta(dbp, meta, dbp->meta_pgno, &lsn);
 if ((ret = __db_log_page(mdbp,
    txn, &meta->dbmeta.lsn, dbp->meta_pgno, (PAGE *)meta)) != 0)
  goto err;

 /* Create and initialize a root page. */
 if ((ret = __db_new(dbc,
    dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE, NULL, &root)) != 0)
  goto err;
 root->level = LEAFLEVEL;

 if (DBENV_LOGGING(env) &&
#if !defined(DEBUG_WOP)
    txn != NULL &&
#endif

    (ret = __bam_root_log(mdbp, txn, &meta->dbmeta.lsn, 0,
    meta->dbmeta.pgno, root->pgno, &meta->dbmeta.lsn)) != 0)
  goto err;

 meta->root = root->pgno;
 if ((ret =
    __db_log_page(mdbp, txn, &root->lsn, root->pgno, root)) != 0)
  goto err;

 /* Release the metadata and root pages. */
 if ((ret = __memp_fput(mpf, ip, meta, dbc->priority)) != 0)
  goto err;
 meta = NULL;
 if ((ret = __memp_fput(mpf, ip, root, dbc->priority)) != 0)
  goto err;
 root = NULL;
err:
 if
 (meta != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  meta, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if (root != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  root, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;
 if (dbc != NULL)
```

```
 if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
  ret = t_ret;
 return (ret);
}
```

1.17 mingetty 1.08

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Version 2, June 1991

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1.18 pm-utils 1.4.1

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```
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#
```

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#

. "@PM-UTILS-LIBDIR@/pm-functions"

help_options()
{
 echo "pm-is-supported [--suspend | --hibernate | --suspend-hybrid ]"
 echo
}

ARG="$(echo ${1#--}|tr - _)"

case "$ARG" in
 suspend|hibernate|suspend_hybrid)
  "check_$ARG" ;;
 help)  help_options ;;
 *)  help_options 1>&2
  exit
 1 ;;
esac
```

1.19 tcp-wrappers 7.6

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1.20 bind 9.11.4

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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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```
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 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>
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 <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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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.

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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

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proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
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1.28 perl 5.24.4

1.28.1 Available under license :

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c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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<one line to give the program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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Yoyodyne, Inc., hereby disclaims
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
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1.29 libcroco 0.6.13

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function must
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1.30 fbset 2.1

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1.31 protobuf 3.6.1

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  * Optimize Java serialization of strings so that UTF-8 encoding happens only
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  * Added atomicops for Solaris
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  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)
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1.32 netcf 0.2.8

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1.33 bc 1.07

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1.34 dc 1.4

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)

subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
 the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
 experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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[#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>`.

1.36 which 2.21

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1.37 os-release 1.0

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1.38 python-pyrad 1.2

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1.39 wireless-tools 30.pre9

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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

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Appendix: How to Apply These Terms to Your New Programs

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for details.

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

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The End

1.42 gnutls 3.3.30

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If distribution of object code is made by offering access to copy

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James

Random Hacker.

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

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license

>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > > I understand that, and you're welcome to bring it up with Alec
> directly
> > > and see if he wants to relicense his code as LGPL... but at this
> point,
> > > it was enough to just get it consistent and documented as to what
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> 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...
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> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
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> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
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> 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

1.44 libusb-compat 0.1.7

1.44.1 Available under license :

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Version 2.1, February 1999

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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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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.

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the

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

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

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

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
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than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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
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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
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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.

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1.46 websocketpp 0.8.2

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base64.hpp is a repackaging of the base64.cpp and base64.h files into a
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base64.cpp and base64.h

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L. Peter Deutsch
ghost@aladdin.com

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1.48 sqlite 3.32.3

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1.50 newt 0.52.21

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a purpose that is entirely well-defined independent of the
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2 above provided that you accompany
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it
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Section 6 states terms for distribution of such executables.

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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@item
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@enumerate a
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Library will not necessarily be able to recompile the application
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 made by running the Program).
Whether that is true depends on what the Program does.

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@end enumerate

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Accompany it with a written offer, valid for at least three
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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,

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Accompany it with the information you received as to the offer
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distribution and only if you
received the program in object code or executable form with such

an offer, in accord with Subsection b above.)
@end enumerate

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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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading 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.

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

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

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@end smallexample

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:

@smallexample
Gnomovision version
 69, Copyright (C) @var{year} @var{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.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{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:

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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 Public License does not permit incorporating your program into
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The gettext-runtime package is partially under the LGPL and partially under
the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:
- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel
directory:
- the _programs_ gettext, ngettext, envsubst,
- the documentation.

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Version 2.1, February 1999

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^L
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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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
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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
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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.

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.

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it

contains portions of the Library), rather than a
"work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

e) Verify that the user has already received a copy of these 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.
^L
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
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1.57 avahi 0.8

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1.58 iptables 1.8.7

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1.60 mpdecimal 2.5.0

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

* Frodo Looijaard
 Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
 Original author of sensord.
* Bob Schlaermann
 Dynamic chip feature detection (a.k.a. generic chip support) in
 libsensors and sensors.
* Mark M. Hoffman
 Many improvements to the libsensors configuration file scanner.
* Jean Delvare
 New libsensors API, and migration of sensors and sensord thereto.
 Many optimizations in libsensors and sensors.
 Configuration file converter.
 Rewrite of sensors-detect.
 Support for multiple configuration files in libsensors.

1.64 glibc 2.33

1.64.1 Available under license :

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is invoked, then you must make a good faith effort to ensure that,
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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
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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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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
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therefore falls outside the scope of this License.

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library''. The executable is therefore covered by this License.
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When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
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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
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
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link a ``work that uses the Library'' with the Library to produce a

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of these things:

@enumerate a
@item
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
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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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to use the modified definitions.)

@item
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@item
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@item
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@enumerate a
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@subheading END OF TERMS AND CONDITIONS

@page
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1.70 binutils 2.35.50

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

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

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

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

e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

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

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

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[This is the first released version of the library GPL. It is
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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.

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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
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itself be a software library.

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table of data to be supplied by an application program that uses
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If

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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
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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.

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

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Version 3, 29 June 2007

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1.71 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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1.77 rpm 4.16.1

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Version 3, 29 June 2007

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Version 2, June 1991

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

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

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

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

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

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

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

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

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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
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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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a 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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

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@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
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In

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of
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1.82 lttng-ust 2.12.1

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Mathieu Desnoyers
December 5, 2012

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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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Version 3, 29 June 2007

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1.86 libatomic 10.3.0

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, 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)
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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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- libgomp
- libitm
- libssp
- libstdc++-v3
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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

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

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:
- d/phobos/*

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1.88 rng-tools 6.11

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1.89 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

1.90 berkeley-db 5.3.28

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It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

Upstream Author: Christian Werner <chw@ch-werner.de>

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1.91 ipmi-tool 1.8.18

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1.92 unzip 6.0

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FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project.
Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.
Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

- -

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining
code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the 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(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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

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

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

```
   *  MacBinaryIII.h
   *
   *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
   *
   *  Basic encoding and decoding of Macintosh files to the
   *  MacBinary III spec.
   * ---------------------------------------------------------------------
   * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
   * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
   * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

This copyright note does not contain any usage terms. So, we assume
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The following copyright applies to the full-featured unreduce.c
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```
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   *
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```

* If you use this in your own program you must distribute source code.
* Do not use any of this in a commercial product.

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

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

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

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

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

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The following copyright applied to the Windows DLL code (windll/*),
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```
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```

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```
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  * Miller.  The product "Pocket UnZip" itself is property of the
  * author and cannot be altered in any way without written consent
  * from Steve P. Miller.
```

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

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

1.93 lsof 4.91

1.93.1 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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4.90, February 14, 2018
4.91, March 26, 2018

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!!!
```

Added a patch to prevent NFS blocking in Linux supplied by
Kristna Streitov <kstreitova@suse.com>.

Installed a FreeBSD patch that prevents examining a TCP state
structure during a race condition. The patch was supplied by
Bryan Drewery <bdrewery@FreeBSD.org>.

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
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/*
* 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
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*
* 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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License along with the GNU C Library; see the file COPYING.LIB. If not,
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
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*/
/*
* 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):
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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/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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4. This notice may not be removed or altered.
*/
/*
    * 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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7.4 Why does lsof use the wrong configuration header files?
For example, why can't the lsof compilation find cpus.h?
7.5 Why does lsof indicate incomplete paths with " -- " for Tru64
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8.5 FreeBSD ZFS Problems
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9.2 /dev/kmem-based HP-UX lsof Questions
9.2.1 Why doesn't a /dev/kmem-based HP-UX lsof compilation use -O?
9.2.2 Why doesn't the /dev/kmem-based CCITT support work under 10.x?
9.2.3 Why can't /dev/kmem-based lsof be compiled with `cc -Aa` or
`gcc -ansi` under HP-UX 10.x?
9.2.4 Why does /dev/kmem-based lsof complain about no C compiler?
9.2.5 Why does Configure complain about q4 for /dev/kmem-based lsof
for HP-UX 11?
9.2.6 When compiling /dev/kmem-based lsof for HP-UX 11 what do the
"aCC runtime: ERROR..." messages mean?
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HP-UX 11?
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building lsof for 64 bit HP-UX 11?
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system type" for VxFS files?
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11 header files?
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(LOFS) file system?
9.3.7 Why do some swinstall packages for PSTAT-based HP-UX 11.11
packages complain about setgid and setuid bits?
9.3.8 Why won't
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PA-RISC HP-UX 11.23?
9.3.9 Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?
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?
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10.0 Linux Problems
10.1 What do /dev/kmem-based and /proc-based lsof mean?
10.2 /proc-based Linux lsof Questions
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10.2.4 Why does /proc-based lsof report "(deleted)" after a path name?
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10.2.7.1 Why can't lsof find files on an accessible NFS file system?
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10.2.8 Why doesn't /proc-based Linux lsof report socket options and values, socket state flags, and TCP options and values?
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10.8 Linux /proc/net/tcp* and /proc/net/udp* issues
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10.8.2 Why does lsof say ``-i is useless when -X is specified''?
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11.0 NetBSD Problems
11.1 Why doesn't lsof report on open kernfs files?
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?
11.3 Why does lsof produce confusing results for nullfs file systems?
11.4 NetBSD header file problems
11.4.1 Why can't the compiler find some NetBSD header files?
11.4.2 Why does NetBSD lsof produce incorrect output?
11.5 Why isn't lsof feature xxx enabled for NetBSD?

12.0 NEXTSTEP and OPENSTEP Problems
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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?
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13.4 Why doesn't lsof report on open MS-DOS file system (floppy disk) files?
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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)"?
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15.0 Pyramid Version Problems
15.0.5 Statement of deprecation

16.0 SCO Problems
16.1 SCO OpenServer Problems
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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
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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
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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
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17.13 Solaris and COMMON
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file?
17.13.2 Why does a COMMON Solaris VCHR file sometimes seem to have an
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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
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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()
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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
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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
 *
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 */
```

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 Version	SPARC Patch	x86 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.

```
/*
* Copyright 1997 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.
*/
```

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
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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/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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Dialect Notes
  AFS
  AIX
  Apple Darwin
  Auspex LFS (no longer maintained)

  BSDI BSD/OS
  DEC OSF/1, Digital UNIX, Tru64 UNIX
  FreeBSD
  HP-UX
  IPv6
  Linux
  NetBSD
  NEXTSTEP and OPENSTEP
  OpenBSD
  Pyramid DC/OSx and Reliant UNIX (no longer available)

Caldera OpenUNIX
SCO OpenServer
SCO|Caldera UnixWare
Solaris 2.x, 7, 8, 9 and 10
Ultrix (no longer available)
Veritas VxFS and VxVM
User-contributed Dialect Support
Dialects No Longer Supported
Installing Lsof
Setuid-root Lsof Dialects
Setgid Lsof Dialects
Porting lsof 4 to a New UNIX Dialect
Quick Start to Using lsof
Cross-configuring Lsof
Environment Variables Affecting the Configure Script

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

```
/*
* Copyright 2008 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.
*/
```

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/util.c
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
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The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider

Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
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Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
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Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
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Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
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Janssen, Mark
Jepeway, Chris
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Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe

Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
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Plotnick, Alex
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Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
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Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
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Fontenelle, Rafael
Garca-Fontes, Walter
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Hamming, Peter
Hansen, Joe
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Psa, Petr
Puente, Enol
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Qun, Trn Ngc
Rasmussen, Sebastian
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Sarer, zgr
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Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo: Stillman, Mark

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The debian package files have been derived from the original radiusclient1 debian package.

It was downloaded from ftp.cityline.net/pub/radiusclient/

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1.98 mdadm 4.1

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1.99 zlib 1.2.11

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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.
^L
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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Also add information on how to contact you by electronic and paper
mail.

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your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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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!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a

clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library

to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small

> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From
 alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (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

1.101 run-postinsts 1.0

1.101.1 Available under license :

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1.102 shadow-securetty 4.6

1.102.1 Available under license :

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Id
*)

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****

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documenting the differences in manual
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1.105 sysvinit-inittab 2.88dsf

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Found in path(s):

* /sysvinit-inittab-2.88dsf-r10.0.src.rpm-cosi-expand-archive-qTgsRCyW/sysvinit-inittab.spec

1.106 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

1.107 talloc 2.3.3

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1.111 gpt-fdisk 1.0.7

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1.112 python-ply 3.11

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PLY (Python Lex-Yacc)   Version 3.11

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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

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1.113 perl 5.32.1

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[name]
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[input]
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Appendix: How to Apply These Terms to Your New Programs

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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
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 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 a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

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

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current
 year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

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

done_testing;


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

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

 # The copyright message is the first paragraph:
```

```
 local $/ = '';
 my $copyright_msg = <$readme>;

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

 $year;
}


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

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

 $year;
}
```

1.114 syslog-ng 3.36.1

1.114.1 Available under license :

```
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```

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lib/
libtest/
syslog-ng/
syslog-ng-ctl/
persist-tool/
tests/loggen/

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For file-level license details, check tests/copyright/policy.

FAQ:
====

The
questions and answers below try to summarize the intentions behind this
licensing scheme.

Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL
licenses?

A: Yes, that's exactly the point of open source. Works derived from the
plugins will have to use the GPL license, but you can choose to use LGPL for
them as well.

Q: Do I need to sign a Contributory License Agreement in order for my
contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to
have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the
syslog-ng core but not derived works of other plugins. Thus, non-free
plugins are possible, provided they do not link to any of the GPLd plugins
explicitly and the only connection between two plugins is via the syslog-ng
core.

Q: Who is permitted to create non-free plugins for syslog-ng?
Is it just
BalaBit (the current copyright holder as of the initial 3.2 release)?

A: No, everyone including BalaBit.

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==========

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1.115 bzip2 1.0.8

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.116 ethtool 5.10

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1.117 libcap-ng 0.8.2

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the work with the complete corresponding
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1.119 net-snmp 5.8

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1.121 net-tools 2.10

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1.122 python-chardet 4.0.0

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1.123 rpcbind 1.2.5

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1.125 python3-cryptography 3.3.2

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any
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1.132 libnettle6 3.7.3

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1.134 shadow 4.8.1

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1.136 cronie 1.5.5

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1.137 binutils 2.36.1

1.137.1 Available under license :

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

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
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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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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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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
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themselves,
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exercise the right to control the distribution of derivative or
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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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:

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[This is the first released version of the library GPL. It is
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with the library, after making
 changes to the library and recompiling
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 Most GNU software, including some libraries, is covered by the ordinary
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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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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.

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

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

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

root function must still compute square roots.)

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

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However, linking a "work that uses the Library" with the Library 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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1.141 grep 3.6

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1.142 modutils-initscripts 1.0

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1.144 sed 4.8

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1.145 python3-idna 3.1

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1.146 hwloc 1.11.13

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1.147 gawk 5.1.0

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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.

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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.

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

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

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

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

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

c) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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Here is a sample; alter the names:

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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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.

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.

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1. Source Code.

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

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

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component

(kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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

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

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5. 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:

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

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
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License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
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invalidate such permission if you have separately received it.

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work need not make them do so.

A compilation of a covered work with other separate and independent
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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.

6. 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:

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 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.

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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and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in
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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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

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1.154 dmidecode 3.3

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1.156 xinetd 2.3.15.4

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```

```
<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>
```

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 - Local variables:
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1.163 xmlsec 1.2.31

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1.164 python3-cffi 1.14.5

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1.166 sysv-init 2.99

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1.172 pythonurllib 1.26.5

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

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

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

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

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

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

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

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

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

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Peter Waller <p@pwaller.net>

* HTTPResponse.tell() for determining amount received over the wire

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

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

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

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

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

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

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

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

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

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

* Andy Caldwell <andy.m.caldwell@googlemail.com>

* Bugfix related to reusing connections in indeterminate states.

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

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

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

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

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

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

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

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

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

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

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

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

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

* Erik Rose <erik@mozilla.com>

* Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header
regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

* 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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1.173 python3-pycparser 2.20

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pycparser -- A C parser in Python

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1.174 libxml2 2.9.10

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1.175 libpwquality 1.4.4

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1.179 tini 0.19.0

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1.180 e2fsprogs 1.46.1

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

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
+   Copyright (C) Andrew Tridgell   1999-2005
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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1.181 python3-ptyprocess 0.7.0

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1.182 sysstat 12.4.3

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1.183 kmod 28

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1.184 rpm 4.16.1.3

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

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

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root
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1.185 iptables 1.8.7

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1.188 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 =

## End BSD-specific setup
```

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1.189 ncurses 6.2

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Calling this script install-sh is preferred over install.sh, to prevent
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This script is compatible with the BSD install script, but was written
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shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
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-- vile: txtmode file-encoding=utf-8

1.190 gettext 0.21

1.190.1 Available under license :

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@center Version 2.1, February 1999

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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

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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
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@end enumerate

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2 above provided that you accompany
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@item
A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
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However, linking a ``work that uses the Library'' with the Library
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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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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,

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@item
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@enumerate a
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and (2) will operate
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@item
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@enumerate a
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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
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@end
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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!
This subpackage is under the GPL, see file COPYING in the toplevel directory.
The libasprintf package is under the LGPL, see file COPYING.LIB.
@c The GNU General Public License.
@center Version 2, June 1991

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

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@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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

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to attach them to the start of each source file to most effectively

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

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necessary. Here is a sample; alter the names:

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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^L
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1.191 pam-ldap 184

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must
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1.192 boost 1.75.0

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////

[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

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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
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1.197 libcap 2.48

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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.201 hd-parm 9.60

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new file mode 100644
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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

1.206 gnutls 3.7.2

1.206.1 Available under license :

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##
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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

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all the source code for all modules it contains, plus any associated
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on the Library (independent of the use
of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of
the Library, and
therefore falls outside the scope of this License.

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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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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7. You may place library facilities that are a work based on the

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1.210 protobuf 3.15.2

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1.211 gdbm 1.19

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The "source code" for a work means the preferred form of the work

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

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The requirement to provide Installation Information
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1.212 tcl 8.6.11

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I would like to thank the following people (in alphabetical order):

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If I've missed anyone, it's due to oversight. Drop me a line and I'll rectify the situation as quickly as possible.

1.216 bc 1.07.1

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1.217 json-c 0.15

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1.218 fribidi 1.0.10

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1.219 jansson 2.13.1

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1.222 openosc 1.0.5

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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/interface/xos_if_eg.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/xtf_tlv_test/tlv.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/xtf_tlv_test/tlv.h/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/examples/src/xtf_tlv_test/tlv_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_addr.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_addr_nxos.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_addr_v4.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_addr_v6.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_async.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_atomic.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_avl.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_bind_status.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_bitlist.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_cerrno.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_cerrno_init.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_constants.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_debug_trace.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_defs.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_dm.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_dqueue.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_errno.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_hash.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_hashmap.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_hashset.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_id_manager.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_id_manager_ext.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_cfg.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_ether.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_if_event.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-

8.0.0.21/include/xos_if_handle.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_if_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_if_nxos.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_if_shim.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_infra.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_ipc.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_list.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_magic.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_md5.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_mem_mgmt.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_mem_named.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_mgd_timers.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_netinfra.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_netinfra_nxos.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_pak.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_pak_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_passive_timers.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_plc.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_plc_action.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_plc_c3pl.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_plc_match.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_plc_shim.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_plc_target.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_plc_types.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_ppm.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_queue.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_radix.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_random.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-

8.0.0.21/include/xos_rbtree.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_registry.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_rtg.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_rtg_event.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_rtg_l3_ucast.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_rtg_shim.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_sm.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_sm_compile.h/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_sysinfo.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_thread.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_time_utils.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_time_utils_base.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_timer_wheels.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_types.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_vrf.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xos_vrf_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xos_wavl.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/include/xtf.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/include/xtf_event_checker.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/linux/include/xos_if_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/linux/include/xos_pak_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/linux/include/xos_vrf_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/m4/ax_cflags_gcc_option.m4#
==========
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/internal_inc/xos_atomic_internal.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/internal_inc/xos_magic_internal.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/internal_inc/xos_mem_named_internal.h
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-
8.0.0.21/shared/internal_inc/xos_mem_shm_internal.h/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/internal_inc/xos_thread_internal.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/internal_inc/xos_util_internal.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_attr.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_debug.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_fc.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_msg.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_sig.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ipc_sig_condvar.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ring.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/ipc/xos_ring.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_mgmt.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_mgmt_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_named.c/*----------
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_named_internal.c
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_named_priv.h/*----------
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_safe_shm.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_shm.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_shm_priv.h/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_vchunk.c/*----------
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_vchunk_intern.h
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/memory/xos_mem_vchunk_priv.h
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_addr_debug.h/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_addr_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_async.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_async_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_if.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_if_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_if_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_if_lnx_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_if_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_if_shim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_netinfra.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_netinfra_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_pak.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_pak_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_pak_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_pak_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_pak_priv_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_plc.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_plc_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_plc_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_plc_shim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_rtg.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_rtg_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_rtg_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_rtg_shim.c/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_vrf.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_vrf_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_vrf_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/net/xos_vrf_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/sysinfo/xos_sysinfo.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/sysinfo/xos_sysinfo_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/sysinfo/xos_sysinfo_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/threads/xos_thread.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/threads/xos_thread_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_mgd_timers.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_mgd_timers_non_ion_posix.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_mgd_timers_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_passive_timers.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_passive_timers_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_utils_base_non_blob.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_utils_base_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_utils_common.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_time_utils_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_timer_wheels.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/time/xos_timer_wheels_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_atomic.c/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_atomic_mips.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_atomic_x86_64bi.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_bitlist.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_cerr_cerrnos.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_cerrno.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_cerrno_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_cerrno_shm.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_cerrno_shm_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_cli_prt.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_cli_prt_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_dqueue.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_hashmap.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_hashset.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_idm.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_idm_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_infra.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_intrpt.c/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_intrpt_priv.h/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_list.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_list_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_md5.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_ppm.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_queue.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_radix.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_radix_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_random.c/*----------
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_rbtree.c/*
 $Id: rbtree.c,v 1.5 1999/03/18 01:24:22 richl Exp $
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_rbtree_priv.h/* $Id: rbtree.h,v 1.2 1998/10/06 01:06:52 kparne Exp $
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_registry.c/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_sm.c/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_strings.c/*----------
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_strings.h/*----------
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_wavl.c/*
 $Id: wavl.c,v 3.2.62.4 1996/09/07 02:08:29 snyder Exp $
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/utils/xos_wavl_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/exec_show_xos_dm.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_cli_priv.h/* $Id:
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8.0.0.21/shared/src/xdm/xos_dm_debug.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_io_kq.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_io_lnx.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_priv_lnx.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdm/xos_dm_timers_lnx.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/shared/src/xdt/xos_debug_trace_priv_test.h/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_agent_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_agent_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_agent_shared.c/*

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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_evc_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_self_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/infra/xtf_shared.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ipc_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ipc_test.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ipc_test_cs.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ipc_test_ecs.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/ipc/xos_ring_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_mgmt_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_mgmt_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_named_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_named_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/memory/xos_mem_vchunk_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_addr_test.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_shim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_sim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_sim.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_if_test_sim_lnx.c/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_netinfra_dump_notifications.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_netinfra_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_pak_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_pak_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_plc_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_plc_test.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_plc_test_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_plc_test_sim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_rtg_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_rtg_test.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_rtg_test_lnx.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_rtg_test_sim.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_vrf_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/net/xos_vrf_test.h/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/sysinfo/xos_sysinfo_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/threads/xos_thread_test.c/*
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/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/time/xos_dm_timer_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/time/xos_mgd_timers_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/time/xos_mgd_timers_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/time/xos_passive_timers_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/time/xos_passive_timers_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/time/xos_time_utils_base_test.c/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/time/xos_time_utils_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/time/xos_time_utils_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/time/xos_timer_wheels_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/ios_sm_test.sm/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_atomic_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_avl_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_avl_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_bitlist_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_bitlist_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cerrno_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cerrno_test_client.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cerrno_test_client_1.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cerrno_test_client_2.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cerrno_test_client_3.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cerrno_test_client_4.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cerrno_test_client_5.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_cli_prt_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_dqueue_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_dqueue_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_errmsgs_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_hashmap_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_hashset_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_idm_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_idm_test_priv.h/*

/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_infra_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_list_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_list_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_md5_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_md5_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_ppm_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_queue_test.c
 /*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_queue_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_radix_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_radix_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_random_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_random_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_rbtree_test.c
 /*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_rbtree_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_reg_test.c/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_reg_test.h/**
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_reg_test.xreg#if 1 /*
 CHECKSUM: checksum visible to CC when included in _xreg[ch] files */
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_reg_test.xregc/* This file is machine generated from xos_reg_test.xreg.
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_reg_test.xregh/* This file is machine generated from xos_reg_test.xreg.
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_sm_basic_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_sm_basic_test.sm/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_sm_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-

8.0.0.21/test/src/utils/xos_sm_test.sm/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_sm_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_wavl_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/utils/xos_wavl_test_priv.h/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/xdm/xos_dm_socket_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/xdm/xos_dm_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/xdm/xos_dm_xd_test.c/*
/opt/cola/permits/1447739708_1759119893.2400212/0/xoslib-8-0-0-21-tar-gz/xoslib-8.0.0.21/test/src/xdt/xos_debug_trace_test.c/*

Found
in path(s):
*

1.224 openssh 9.1p1

1.224.1 Notifications :

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.224.2 Available under license :

This file is part of the OpenSSH software.

The licences which components of this software fall under are as
follows. First, we will summarize and say that all components
are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)
```
   * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
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   *
   * As far as I am concerned, the code I have written for this software
   * can be used freely for any purpose.  Any derived versions of this
   * software must be clearly marked as such, and if the derived work is
   * incompatible with the protocol description in the RFC file, it must be
   * called by a name other than "ssh" or "Secure Shell".
```

[Tatu continues]
* However, I am not implying to give any licenses to any patents or
* copyrights held by third parties, and the software includes parts that
* are not under my direct control. As far as I know, all included

* source code is used in accordance with the relevant license agreements
* and can be used freely for any purpose (the GNU license being the most
* restrictive); see below for details.

[However, none of that term is relevant at this point in time. All of
these restrictively licenced software components which he talks about
have been removed from OpenSSH, i.e.,

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

[The licence continues]

Note that any information and
cryptographic algorithms used in this
software are publicly available on the Internet and at any major
bookstore, scientific library, and patent office worldwide. More
information can be found e.g. at "http://www.cs.hut.fi/crypto".

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 *
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 *
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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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1.235 libvirt 6.3.0

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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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1.237 libsdl 2.0.14

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

c) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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

c) You must cause the whole of the work to be licensed at no 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
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the 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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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,
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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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a) Accompany the work with the complete corresponding machine-readable
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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.

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October 28, 1997
--
Sam Lantinga (slouken@libsdl.org)

1.238 libevent 2.0.22

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1.239 libevent 2.1.8

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1.240 libtasn 4.17.0

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1.247 thread-pool 0.2.5

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1.249 tunctl 1.5

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Version: 1.5
Release: 1
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Group: Applications/System
License: GPL+
URL: http://tunctl.sourceforge.net/
Source0: http://downloads.sourceforge.net/tunctl/tunctl-%{version}.tar.gz
BuildRoot: %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u} -n)

BuildRequires: docbook-utils

%description
Virtual network interface manipulation tool from User Mode Linux project.

%prep
%setup

%build
make

%install
rm -rf $RPM_BUILD_ROOT
make DESTDIR=$RPM_BUILD_ROOT install

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%{_mandir}/man8/tunctl.8*
%{_sbindir}/tunctl
%doc ChangeLog

%changelog
* Wed Jul 9 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.5-1
- Update to version 1.5

* Tue Jul 8 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.4-3
- Packaged tunctl as a upstream
 package of it's own

* Tue Mar 25 2008 Lubomir Kundrak <lkundrak@redhat.com> 1.4-2
- Move to sbin (Marek Mahut, #434583)

* Fri Feb 22 2008 Lubomir Kundrak <lkundrak@redhat.com> 1.4-1
- Initial packaging

Found in path(s):
* /tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.spec
No license file was found, but licenses were detected in source scan.

/* Copyright 2002 Jeff Dike
* Licensed under the GPL
*/

Found in path(s):
* /tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.c

1.250 libcgroup 0.41

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1.251 libbpf 0.3.0

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****** SHA1 Library (sha1/sha1.hpp) ******
sha1.hpp is a repackaging of the sha1.cpp and sha1.h files from the shallsha1
library (http://code.google.com/p/smallsha1/) into a single header suitable for
use as a header only library. This conversion was done by Peter Thorson
(webmaster@zaphoyd.com) in 2013. All modifications to the code are redistributed
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****** MD5 Library (common/md5.hpp) ******
md5.hpp is a reformulation of the md5.h and md5.c code from
http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c to allow it to
function as a component of a header only library. This conversion was done by
Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The
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L. Peter Deutsch
ghost@aladdin.com

****** UTF8 Validation logic (utf8_validation.hpp) ******
utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann
<bjoern@hoehrmann.de>. See http://bjoern.hoehrmann.de/utf-8/decoder/dfa/ for
details.

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1.256 libcgroup 2.0.2

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That's all there is to it!

1.257 nvme-cli 1.13

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* /multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h
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1.259 openssl 1.1.1y

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For the server\util_md5.c component:

/**
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* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*

```
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For the srclib\apr-util\xml\expat\conftools\install-sh component:

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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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        This file is generated from xml source: DO NOT EDIT
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X
    -->
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<script src="./style/scripts/prettify.min.js" type="text/javascript">
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1.260 common-base3 1.0

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

/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/common.pyo: binary file matches
/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_base.pyo: binary file matches

Found in path(s):
* /bin/grep
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: common-base
Version: 1.0
Summary: common-base
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /common-base3-1-0-tar-gz/common-base3-1.0/EGG-INFO/PKG-INFO
No license file was found, but licenses were detected in source scan.

All rights reserved.

Found in path(s):
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/provisioner_service.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/diagnostic_archive_util.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/enum.py
* /common-base3-1-0-tar-gz/common-base3-1.0/upgrade_base/__init__.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/product.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/tests/test.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/nameservice.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/ftp.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/__init__.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/tftp.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/base_message_server.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_coroutine_server.py
*
 /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/base_conf.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_client.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/log.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/encryption_util.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_base.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/daemon.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/clear_password_fields.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/socket_util.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_client.py
* /common-base3-1-0-tar-gz/common-base3-1.0/upgrade_base/upgrade_server.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/provisioner_events.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_coroutine_client.py
*

/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/name_svc_util.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/base_transfer_proto.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/base.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_server.py
* /common-base3-1-0-tar-gz/common-base3-1.0/upgrade_base/upgrade_client.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_coroutine_client.py
* /common-base3-1-0-tar-gz/common-base3-
1.0/common_base/messageq/tests/tests_asa_provisioner_service_provider.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/product.py.orig
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/asa_provisoner_service_provider.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/http.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/tests/__init__.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/name_server.py
*
/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/common.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/auth_util.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/daemon.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/__init__.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/console_util.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/base_message_client.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/db_version_util.py
* /common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/client.py

1.261 qed-drv 8.59.10.0

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1.262 qede-drv 8.59.10.0

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1.269 perf 1.0

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1.274 mongoose-web-server 3.5

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lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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1.277 usleep 1.0

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1.279 libtraceevent 1.8.2

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libtraceevent(3)
==========

NAME
----
tep_get_any_field_val, tep_get_common_field_val, tep_get_field_val,

tep_get_field_raw - Get value of a field.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

int *tep_get_any_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_common_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
void pass:[*]*tep_get_field_raw*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int pass:[*]_len_, int _err_);
--

DESCRIPTION

These functions can be used to find a field and retrieve its value.

The *tep_get_any_field_val()* function searches in the _record_ for a field with _name_, part of the _event_. If the field is found, its value is stored in _val_. If there is an error and _err_ is not zero, then an error string is written into _s_.

The *tep_get_common_field_val()* function does the same as *tep_get_any_field_val()*, but searches only in the common fields. This works for any event as all events include the common fields.

The *tep_get_field_val()* function does the same as *tep_get_any_field_val()*, but searches only in the event specific fields.

The *tep_get_field_raw()* function searches in the _record_ for a field with _name_, part of the _event_. If the field is found, a pointer to where the field exists in the record's raw data is returned. The size of the data is stored in _len_. If there is an error and _err_ is not zero, then an error string is written into _s_.

RETURN VALUE

The *tep_get_any_field_val()*, *tep_get_common_field_val()* and *tep_get_field_val()* functions return 0 on success, or -1 in case of an error.

The *tep_get_field_raw()* function returns a pointer to field's raw data, and

places the length of this data in _len_. In case of an error NULL is returned.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
...
void process_record(struct tep_record *record)
{
 int len;
 char *comm;
 struct tep_event *event;
 unsigned long long val;

 event = tep_find_event_by_record(tep, record);
 if (event != NULL) {
  if (tep_get_common_field_val(NULL, event, "common_type",
         record, &val, 0) == 0) {
   /* Got the value of common type field */
  }
  if (tep_get_field_val(NULL, event,
 "pid", record, &val, 0) == 0) {
   /* Got the value of pid specific field */
  }
  comm = tep_get_field_raw(NULL, event, "comm", record, &len, 0);
  if (comm != NULL) {
   /* Got a pointer to the comm event specific field */
  }
 }
}
```
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences
 related APIs. Trace sequences are used to allow a function to call
 several other functions to create a string of data to use.

-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

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LICENSE
----
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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-field_get_val.txt
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libtraceevent(3)
================

NAME
----
tep_set_loglevel - Set log level of the library

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_loglevel* {
 TEP_LOG_NONE = 0,
 TEP_LOG_CRITICAL,

TEP_LOG_ERROR,
TEP_LOG_WARNING,
TEP_LOG_INFO,
TEP_LOG_DEBUG,
TEP_LOG_ALL
};

int *tep_set_loglevel*(enum tep_loglevel _level_);

--
DESCRIPTION

The *tep_set_loglevel()* function sets the level of the library logs that will be printed
on the console. Library log levels are:
[verse]
--
_TEP_LOG_NONE_ - Do not print any logs.
_TEP_LOG_CRITICAL_ - Print critical logs, problem that may cause a crash.
_TEP_LOG_ERROR_ - Print error logs, problem that could break the main logic of an API.
_TEP_LOG_WARNING_ - Print warnings, problem that could limit the result of an API.
_TEP_LOG_INFO_ - Print information about normal execution of an API.
_TEP_LOG_DEBUG_ - Print debug information.
_TEP_LOG_ALL_
- Print logs from all levels.
--
Setting the log level to specific value means that logs from the previous levels will be printed
too. For example _TEP_LOG_WARNING_ will print any logs with severity _TEP_LOG_WARNING_,
_TEP_LOG_ERROR_ and _TEP_LOG_CRITICAL_. The default log level is _TEP_LOG_CRITICAL_.

EXAMPLE

[source,c]
--
#include <event-parse.h>

tep_set_loglevel(TEP_LOG_ALL);
...
/* call libtraceevent APIs and observe any logs they produce */
...
tep_set_loglevel(TEP_LOG_CRITICAL);
--

FILES

[verse]
--
event-parse.h

Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
================

NAME
----
kbuffer_timestamp, kbuffer_subbuf_timestamp -
Functions that read various data of a kbuffer descriptor

SYNOPSIS

[verse]
--
#include <kbuffer.h>

unsigned long long *kbuffer_timestamp*(struct kbuffer pass:[*]_kbuf_);

unsigned long long *kbuffer_subbuf_timestamp*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuf_);
--

DESCRIPTION

The function *kbuffer_timestamp()* returns the timestamp of the current event of _kbuf_.

The function *kbuffer_subbuf_timestamp()* returns the timestamp for the sub-buffer
that was loaded in _kbuf_. This usually is (but not guaranteed to be) the timestamp
of the first event on the sub-buffer.

The function *kbuffer_start_of_data()* returns the offset of where the delta

RETURN VALUE
---
kbuffer_read_event() returns the event that the _kbuf_ descriptor is currently at,
or NULL if the last event was passed (by *kbuffer_next_event()*).

kbuffer_next_event()
returns the next event after the current event or NULL if there
are no more events.

kbuffer_read_at_offset() returns the event at a given _offset_ from the start of
the sub-buffer stored in _kbuf_, or NULL if there exists no event. Note, _offset_
only needs to be an offset that lands on the record, or is at the start of it. It does
not need to be exactly at the beginning of the record.

kbuffer_missed_events() returns 0 if there were no missed events before loaded sub-buffer.
Returns -1 if there were an unknown number of missed events, or if the number of missed events
is known, that number will be returned.

kbuffer_event_size() returns the size of the data payload of the current event of _kbuf_.

kbuffer_curr_size() returns the size of the entire record of the current event of _kbuf_.
This includes the size of the meta data for that record.

kbuf_curr_offset() returns the offset of the current record from the beginning of the
kbuf
sub-buffer.

kbuf_curr_index() returns the index of the current record from the beginning of the _kbuf_
data section.

EXAMPLE

[source,c]
--
#include <stdio.h>

```
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include <kbuffer.h>

int main (int argc, char **argv)
{
 unsigned long long ts;
 struct kbuffer *kbuf;
 struct stat st;
 char *buf;
 void *event;
 int save_offset = -1;
 int record_size;
 int offset;
 int index;
 int size;
 int ret;
 int fd;
 int i = 0;

 if (argc < 2) {
  printf("usage: %s raw-subbuffer-page\n", argv[0]);
  printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
  exit(0);
 }

 if (stat(argv[1], &st) < 0) {
  perror("stat");
  exit(-1);
 }

 buf = malloc(st.st_size);
 if (!buf) {
  perror("Allocating buffer");
  exit(-1);
 }

 fd = open(argv[1], O_RDONLY);
 if (fd < 0) {
  perror(argv[1]);
  exit(-1);
 }

 ret = read(fd, buf, st.st_size);
 if (ret < 0) {
```

```
 perror("Reading
buffer");
 exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
      KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
 perror("Creating kbuffer");
 exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
 perror("Loading sub bufer");
 exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
 fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
  kbuffer_subbuffer_size(kbuf), st.st_size);
 exit(-1);
}

ret = kbuffer_missed_events(kbuf);
if (ret) {
 if (ret > 0)
  printf("Missed %d events before this buffer\n", ret);
 else
  printf("Missed unknown number of events before this buffer\n");
}
do {
 event = kbuffer_read_event(kbuf, &ts);
 if (event) {
  record_size = kbuffer_curr_size(kbuf);
  offset = kbuffer_curr_offset(kbuf);
  index = kbuffer_curr_index(kbuf);
  size = kbuffer_event_size(kbuf);

  if (i == 20)
   save_offset = offset;
  printf(" event %3d ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n",

      i++, ts, record_size, size, index, offset);
  event = kbuffer_next_event(kbuf, NULL);
 }
} while (event);
```

```
 if (!event)
  printf("Finished sub buffer\n");

 if (save_offset > 0) {
  event = kbuffer_read_at_offset(kbuf, save_offset, &ts);
  if (!event) {
   fprintf(stderr, "Funny, can't find event 20 at offset %d\n", save_offset);
   exit(-1);
  }
  record_size = kbuffer_curr_size(kbuf);
  offset = kbuffer_curr_offset(kbuf);
  index = kbuffer_curr_index(kbuf);
  size = kbuffer_event_size(kbuf);

  printf("\n saved event 20 ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n\n",
         ts, record_size, size, index, offset);
 }
 kbuffer_free(kbuf);

 return 0;
}
```

--

FILES

[verse]

--

event-parse.h
 Header file to include in order to have access to the library APIs.

-ltraceevent
 Linker switch to add when building a program that uses the library.

--

SEE ALSO

---

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>,
 author of *libtraceevent*.

--

REPORTING BUGS

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RESOURCES
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libtraceevent(3)
==========

NAME
---
tep_list_events, tep_list_events_copy -
Get list of events, sorted by given criteria.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_event_sort_type* {
 _TEP_EVENT_SORT_ID_,
 _TEP_EVENT_SORT_NAME_,
 _TEP_EVENT_SORT_SYSTEM_,
};

struct tep_event pass:[*]pass:[*]*tep_list_events*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type _sort_type_);
struct tep_event pass:[*]pass:[*]*tep_list_events_copy*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type _sort_type_);
--

DESCRIPTION

The *tep_list_events()* function returns an array of pointers to the events,
sorted by the _sort_type_ criteria. The last element of the array is NULL.
The returned memory must not be freed, it is managed by the library.
The function is not thread safe. The _tep_ argument is trace event parser
context. The _sort_type_ argument is the required sort criteria:
[verse]
--
 _TEP_EVENT_SORT_ID_ -

sort by the event ID.
_TEP_EVENT_SORT_NAME_ - sort by the event (name, system, id) triplet.
_TEP_EVENT_SORT_SYSTEM_ - sort by the event (system, name, id) triplet.
--

The *tep_list_events_copy()* is a thread safe version of _tep_list_events()_.
It has the same behavior, but the returned array is allocated internally and
must be freed by the caller. Note that the content of the array must not be
freed (see the EXAMPLE below).

RETURN VALUE

The *tep_list_events()* function returns an array of pointers to events.
In case of an error, NULL is returned. The returned array must not be freed,
it is managed by the library.

The *tep_list_events_copy()* function returns an array of pointers to events.
In case of an error, NULL is returned. The returned array must be freed by
the caller.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i;
struct tep_event_format **events;

i=0;
events =
 tep_list_events(tep, TEP_EVENT_SORT_ID);
if (events == NULL) {
 /* Failed to get the events, sorted by ID */
} else {
 while(events[i]) {
  /* walk through the list of the events, sorted by ID */
  i++;
 }
}

i=0;
events = tep_list_events_copy(tep, TEP_EVENT_SORT_NAME);
if (events == NULL) {
 /* Failed to get the events, sorted by name */
} else {

```
 while(events[i]) {
  /* walk through the list of the events, sorted by name */
  i++;
 }
 free(events);
}

...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
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```

libtraceevent(3)
==========

NAME
----
tep_register_comm, tep_override_comm, tep_is_pid_registered,
tep_data_comm_from_pid, tep_data_pid_from_comm, tep_cmdline_pid -
Manage pid to process name mappings.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_register_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
int *tep_override_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
bool *tep_is_pid_registered*(struct tep_handle pass:[*]_tep_, int _pid_);
const char pass:[*]*tep_data_comm_from_pid*(struct tep_handle pass:[*]_pevent_, int _pid_);
struct cmdline pass:[*]*tep_data_pid_from_comm*(struct tep_handle pass:[*]_pevent_, const char pass:[*]_comm_,
struct cmdline pass:[*]_next_);
int *tep_cmdline_pid*(struct tep_handle pass:[*]_pevent_, struct cmdline pass:[*]_cmdline_);
--

DESCRIPTION

These functions can be used to handle the
 mapping between pid and process name.
The library builds a cache of these mappings, which is used to display the name
of the process, instead of its pid. This information can be retrieved from
tracefs/saved_cmdlines file.

The *tep_register_comm()* function registers a _pid_ / process name mapping.
If a command with the same _pid_ is already registered, an error is returned.
The _pid_ argument is the process ID, the _comm_ argument is the process name,
tep is the event context. The _comm_ is duplicated internally.

The *tep_override_comm()* function registers a _pid_ / process name mapping.
If a process with the same pid is already registered, the process name string is
udapted with the new one. The _pid_ argument is the process ID, the _comm_
argument is the process name, _tep_ is the event context. The _comm_ is
duplicated internally.

The *tep_is_pid_registered()* function checks if a pid has a process name
mapping registered. The _pid_ argument is the process ID, _tep_ is the event
context.

The

tep_data_comm_from_pid() function returns the process name for a given pid. The _pid_ argument is the process ID, _tep_ is the event context. The returned string should not be freed, but will be freed when the _tep_ handler is closed.

The *tep_data_pid_from_comm()* function returns a pid for a given process name. The _comm_ argument is the process name, _tep_ is the event context. The argument _next_ is the cmdline structure to search for the next pid. As there may be more than one pid for a given process, the result of this call can be passed back into a recurring call in the _next_ parameter, to search for the next pid. If _next_ is NULL, it will return the first pid associated with the _comm_. The function performs a linear search, so it may be slow.

The *tep_cmdline_pid()* function returns the pid associated with a given _cmdline_. The _tep_ argument is the event context.

RETURN VALUE
---
tep_register_comm() function returns 0 on success. In case of an error -1 is returned and errno is set to indicate the cause of the problem: ENOMEM, if there is not enough memory to duplicate the _comm_ or EEXIST if a mapping for this _pid_ is already registered.

tep_override_comm() function returns 0 on success. In case of an error -1 is returned and errno is set to indicate the cause of the problem: ENOMEM, if there is not enough memory to duplicate the _comm_.

tep_is_pid_registered() function returns true if the _pid_ has a process name mapped to it, false otherwise.

tep_data_comm_from_pid() function returns the process name as string, or the string "<...>" if there is no mapping for the given pid.

tep_data_pid_from_comm() function returns a pointer to a struct cmdline, that holds a pid for a given process, or NULL if none is found. This result can be passed back into a recurring call as the _next_ parameter of the function.

tep_cmdline_pid() functions returns the pid for the give cmdline. If _cmdline_ is NULL, then -1 is returned.

EXAMPLE

The following example registers pid for command "ls", in context of event _tep_ and performs various searches for pid / process name mappings:
[source,c]
--

```
#include <event-parse.h>
...
int ret;
int ls_pid = 1021;
struct tep_handle *tep = tep_alloc();
...
 ret = tep_register_comm(tep, "ls", ls_pid);
 if (ret != 0 && errno == EEXIST)
  ret = tep_override_comm(tep, "ls", ls_pid);
 if (ret != 0) {
  /* Failed to register pid / command mapping */
 }
...
 if (tep_is_pid_registered(tep, ls_pid) == 0) {
  /* Command mapping for ls_pid is not registered */
 }
...
 const char *comm = tep_data_comm_from_pid(tep, ls_pid);
 if (comm) {
  /* Found process name for ls_pid */
 }
...
 int pid;
 struct cmdline *cmd = tep_data_pid_from_comm(tep, "ls", NULL);
 while (cmd) {
  pid = tep_cmdline_pid(tep, cmd);
  /* Found pid for process "ls" */
  cmd = tep_data_pid_from_comm(tep, "ls", cmd);
 }
--
FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access
 to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
```

--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
==========

NAME
---
tep_alloc, tep_free,tep_ref, tep_unref,tep_get_ref, tep_kbuffer - Create, destroy, manage references of trace event parser context.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_handle pass:[*]*tep_alloc*(void);
void *tep_free*(struct tep_handle pass:[*]_tep_);
void *tep_ref*(struct tep_handle pass:[*]_tep_);
void *tep_unref*(struct tep_handle pass:[*]_tep_);
int *tep_get_ref*(struct tep_handle pass:[*]_tep_);
struct kbuffer pass:[*]*tep_kbuffer*(struct tep_handle pass:[*]_tep_);
--

DESCRIPTION

These are the main functions to create and destroy tep_handle - the main structure, representing the trace event parser context. This context is used as the input parameter of most library APIs.

The *tep_alloc()* function allocates and initializes the tep context.

The *tep_free()* function will decrement the reference of the _tep_ handler.
When
 there is no more references, then it will free the handler, as well
as clean up all its resources that it had used. The argument _tep_ is
the pointer to the trace event parser context.

The *tep_ref()* function adds a reference to the _tep_ handler.

The *tep_unref()* function removes a reference from the _tep_ handler. When
the last reference is removed, the _tep_ is destroyed, and all resources that
it had used are cleaned up.

The *tep_ref_get()* functions gets the current references of the _tep_ handler.

The *tep_kbuffer()* function allocates a kbuffer descriptor that can be used to
parse raw data that is represented by the _tep_ handle descriptor. It must be freed
with *kbuf_free(3)*.

RETURN VALUE
----
tep_alloc() returns a pointer to a newly created tep_handle structure.
NULL is returned in case there is not enough free memory to allocate it.

tep_ref_get() returns the current references of _tep_.
If _tep_ is NULL, 0 is returned.

tep_kbuffer() returns a kbuffer descriptor
 that can parse the raw data that
represents the tep handle. Must be freed with *kbuf_free(3)*.

EXAMPLE

[source,c]
--
#include <event-parse.h>

...
struct tep_handle *tep = tep_alloc();
...
int ref = tep_get_ref(tep);
tep_ref(tep);
if ((ref+1) != tep_get_ref(tep)) {
 /* Something wrong happened, the counter is not incremented by 1 */
}
tep_unref(tep);
...

tep_free(tep);
...
--
FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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libtraceevent(3)
================

NAME
----
kbuffer_alloc, kbuffer_dup, kbuffer_free, kbuffer_load_subbuffer, kbuffer_subbuffer,
kbuffer_refresh, kbuffer_subbuffer_size, kbuffer_start_of_data - Creating of kbuffer element to parse

the Linux kernel tracing ring buffer

SYNOPSIS

[verse]
--
#include <kbuffer.h>

enum kbuffer_endian {
 KBUFFER_ENDIAN_BIG,
 KBUFFER_ENDIAN_LITTLE,
 KBUFFER_ENDIAN_SAME_AS_HOST,
};

enum kbuffer_long_size {
 KBUFFER_LSIZE_4,
 KBUFFER_LSIZE_8,
 KBUFFER_LSIZE_SAME_AS_HOST,
};

struct kbuffer;
struct tep_handle;

struct kbuffer pass:[*]*kbuffer_alloc*(enum kbuffer_long_size _size_, enum kbuffer_endian _endian_);
struct kbuffer pass:[*]*kbuffer_dup*(struct kbuffer pass:[*]_kbuf_);
void *kbuffer_free*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_load_subbuffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuffer_);
int *kbuffer_subbuffer_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_refresh*(struct
 kbuffer pass:[*]_kbuf_);
int *kbuffer_start_of_data*(struct kbuffer pass:[*]_kbuf_);
void pass:[*]*kbuffer_subbuffer*(struct kbuffer pass:[*]_kbuf);
--

DESCRIPTION

These functions create a _kbuffer_ handle that can be used to parse the raw sub buffers
of the Linux kernel tracing ring buffer. The ring buffer is found in the tracefs
directory, and can be retrieved by *tracefs_instance_get_file(3)* at
per_cpu/cpuX/trace_pipe_raw where *X* is replaced by the per CPU number of
the specified ring buffer. The ring buffer inside the kernel is split up per
CPU, such that the raw ring buffer must be retrieved per CPU as well.

The *kbuffer_alloc()* will create a descriptor that can be used to manage a sub buffer
read by the ring buffer. The _size_ parameter denotes what the word size is
for the given buffer (note, this works from reading raw data from machines other
than the machine that is calling this function). The _endian_ denotes the endian
for the machine.

If
endian is set to _KBUFFER_ENDIAN_SAME_AS_HOST_ the endian will be set to the same
as the host endianess, which is useful when the application is reading the
ring buffer data directly from the same machine it is running on.

If _size_ is set to _KBUFFER_LSIZE_SAME_AS_HOST_, if the word size is 8, it will
set the kbuffer descriptor to long size of 8. But if the size is 4, then it
will then perform a *uname(2)* call, and if the _machine_ field has the string "64"
in it, it will be set to 8 byte long size and not 4 byte. This is because the
ring buffer long size is dependent on the kernel and not user space.

The *kbuffer_dup()* function will duplicate an existing kbuffer structure with
an allocated new one. It will have all the properties of the passed in _kbuf_,
including pointing to the same subbuffer that was loaded in the _kbuf_.
It must be freed with *kbuffer_free()*.

The *kbuffer_free()* function will free the resources created by *kbuffer_alloc()*.

The *kbuffer_load_subbuffer()*
will take a _subbuffer_ which is a raw data blob
from the tracefs *trace_pipe_raw* file. The Linux tracing ring buffer is broken up
into sub buffers. Each sub buffer is as stand alone data segment that has all the
information to split out the individual events and time stamps. This sub buffer
is what kbuffer uses to walk the events.

The *kbuffer_subbuffer_size()* returns the location of the end of the last event
on the sub-buffer. It does not return the size of the sub-buffer itself.

The *kbuffer_refresh()* is to be used if more writes were done on the loaded kbuffer
where the size of the kbuffer needs to be refreshed to be able to read the new
events that were written since the last *kbuffer_load_subbuffer()* was called on it.

Note, no memory barriers are implemented with this function and any synchronization
with the writer is the responsibility of the application.

The *kbuffer_start_of_data()* function returns the offset of where the actual
data load of the sub-buffer
begins.

The *kbuffer_subbuffer()* function returns the pointer to the currently loaded
subbuffer. That is, the last subbuffer that was loaded by *kbuffer_load_subbuffer()*.
If no subbuffer was loaded NULL is returned.

RETURN VALUE
---
kbuffer_alloc() returns an allocated kbuffer descriptor or NULL on error.
The returned descriptor must be freed with *kbuffer_free()*

kbuffer_load_subbuffer() returns 0 on success and -1 on error.

kbuffer_subbuffer_size() returns the index on the subbuffer where the end
of the last event is located.

kbuffer_start_of_data() returns the offset of where the data begins on the
sub-buffer loaded in _kbuf_.

kbuffer_subbuffer() returns the last loaded subbuffer to _kbuf_ that was loaded
by *kbuffer_load_subbuffer()* or NULL if none was loaded.

kbuffer_refresh() returns 0 on success and -1 if _kbuf_ is NULL or it does not
have a subbuffer loaded via *kbuffer_load_subbuffer()*.

EXAMPLE

[source,c]
--
```
#include <stdio.h>
#include
 <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include <kbuffer.h>

int main (int argc, char **argv)
{
 unsigned long long ts;
 struct kbuffer *kbuf;
 struct stat st;
 char *buf;
 void *event;
 int ret;
 int fd;
 int i = 0;

 if (argc < 2) {
  printf("usage: %s raw-subbuffer-page\n", argv[0]);
  printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
  exit(0);
 }

 if (stat(argv[1], &st) < 0) {
  perror("stat");
  exit(-1);
```

```
}

buf = malloc(st.st_size);
if (!buf) {
 perror("Allocating buffer");
 exit(-1);
}

fd = open(argv[1], O_RDONLY);
if (fd < 0) {
 perror(argv[1]);
 exit(-1);
}

ret = read(fd, buf, st.st_size);
if (ret < 0) {
 perror("Reading buffer");
 exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
      KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
 perror("Creating kbuffer");
 exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
 perror("Loading
sub bufer");
 exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
 fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
  kbuffer_subbuffer_size(kbuf), st.st_size);
 exit(-1);
}

printf("Kbuffer data starts at %d\n", kbuffer_start_of_data(kbuf));
do {
 event = kbuffer_read_event(kbuf, &ts);
 if (event) {
  printf(" event %3d ts:%lld\n", i++, ts);
  event = kbuffer_next_event(kbuf, NULL);
 }
} while (event);
```

```
 if (!event)
  printf("Finished sub buffer\n");

 kbuffer_free(kbuf);

 return 0;
}
```
--
FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
--
REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE
----
libtraceevent is Free
 Software licensed under the GNU LGPL 2.1

RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-create.txt
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libtraceevent(3)
================

NAME
----
tep_plugin_kvm_get_func, tep_plugin_kvm_put_func - Add function name for instruction pointer of kvm plugin

SYNOPSIS

[verse]
--
#include <event-parse.h>

const char pass:[*]*tep_plugin_kvm_get_func*(struct tep_event pass:[*]event,
	struct tep_record pass:[*]record,
	unsigned long long pass:[*]paddr);
void *tep_plugin_kvm_put_func*(const char pass:[*]func);
--

DESCRIPTION

The functions *tep_plugin_kvm_get_func()* and *tep_plugin_kvm_put_func()*
are not to be called by an application, but instead are to be defined by
an application.

Certain events (like kvm_exit and kvm_entry) have the instruction pointer
of where in the guest the context changed from guest to host. As the host
only knows the instruction pointer and does not have information about what
function in the guest that instruction pointer belongs to, it can only print
the address.

But
 the application may have more information about the guest, and know where
the guest was when the exit occurred, and also even know the function name
of that address.

The KVM plugin for libtraceevent is called on these events, and then calls
tep_plugin_kvm_get_func() to see if that function can resolve the instruction
pointer address to a real function name. If the return is non NULL, it will
print the function in the output for that event.

These functions are currently defined as weak functions within the plugin, as
to not require them to be defined elsewhere. For an application to override
the weak function, it will need to define the function in a file that gets
compiled with *-rdynamic*. That will tell the dynamic linker to examine that
object file and use function names to resolve weak functions in other shared
objects (in this case the KVM plugin shared object).

If the application defines *tep_plugin_kvm_get_func()*, it must use the above
prototype. The _event_ will

hold the KVM event that has the instruction pointer
field. The _record_ will be the instance of that event. The application's function
does not need to use these parameters, but they may be useful for finding the
function name for the address. The _paddr_ is a pointer to a 64 bit value (where
only 32 bits may be used on 32 bit machines). This value is the instruction
pointer to look up. If the application knows the start address of the function
as well, it can set _paddr_ to that address, and the KVM plugin will also
append a "+offset" to the function name where the offset is the original
value in _paddr_ minus the value in _paddr_ when it is called. Finally,
the application should return the function name as a nul terminated string
if one is found.

If the returned string of *tep_plugin_kvm_get_func()* was allocated, the KVM plugin
will call *tep_plugin_kvm_put_func()* when it is through with it, passing the
value returned by *tep_plugin_kvm_get_func()* as _func_. This allows the application
to
free it if necessary.

RETURN VALUE

The *tep_plugin_kvm_get_func()* is not to be called by the application but instead
is to be defined by the application. It should return a nul terminated string representing
the function for the given instruction pointer passed to it by reference in _paddr_. It
can then optionally update the _paddr_ to a value that holds the start of the function.
The string returned may be freed by the *tep_plugin_kvm_put_func()* that the application
should define to clean up the string.

The below example needs to be compiled with the *-rdynamic* flag so that the dynamic
linker can resolve the *tep_plugin_kvm_get_func()* and *tep_plugin_kvm_put_func()* functions.

When run against a trace.dat file produced by *trace-cmd(1)* recording the kvm_exit and
kvm_entry events on a guest, and then the guest's /proc/kallsyms file is passed as the
second parameter, the output produced will look something like:

[source,c]
--
CPU 0/KVM-20407 83156.177626
[000] kvm_exit reason APIC_ACCESS rip 0xffffffffb0056ee2 exit native_apic_mem_write+0x2 info 10b0 0
CPU 0/KVM-20407 83156.177632 [000] kvm_entry vcpu 0 rip 0xffffffffb0056ee8 enter
native_apic_mem_write+0x8
--

But without those callbacks, it would look like:

[source,c]
--
CPU 0/KVM-20407 83156.177626 [000] kvm_exit reason APIC_ACCESS rip 0xffffffffb0056ee2 info 10b0 0
CPU 0/KVM-20407 83156.177632 [000] kvm_entry vcpu 0 rip 0xffffffffb0056ee8

--

EXAMPLE

[source,c]
--
```
#include <stdio.h>
#include <stdlib.h>
#include <event-parse.h>
#include <trace-cmd.h>
#include <sys/stat.h>

static struct tep_handle *tep;

const char *tep_plugin_kvm_get_func(struct tep_event *event, struct tep_record *record,
       unsigned long long *paddr)
{
 const char *func;
 char *event_func;
 char *ename;

 func = tep_find_function(tep, *paddr);
 if (!func)
  return NULL;

 if (strcmp(event->name, "kvm_exit") == 0)
  ename = "exit";
 else
  ename = "enter";

 /*
  * Normally, passing
 back func directly is sufficient and then
  * tep_plugin_kvm_put_func() would not be required. But this example
  * is showing how to handle allocation of the returned string.
  */
 event_func = malloc(strlen(ename) + strlen(func) + 2);
 if (!event_func)
  return NULL;
 sprintf(event_func, "%s %s", ename, func);

 *paddr = tep_find_function_address(tep, *paddr);

 return event_func;
}

void tep_plugin_kvm_put_func(const char *func)
{
```

```
 char *f = (char *)func;

 free(f);
}

static int show_event(struct tracecmd_input *handle, struct tep_event *event,
        struct tep_record *record, int cpu, void *data)
{
 static struct trace_seq seq;
 tep = data;

 if (!seq.buffer)
  trace_seq_init(&seq);

 trace_seq_reset(&seq);
 tep_print_event(tracecmd_get_tep(handle), &seq, record,
   "%s-%d\t%6.1000d [%03d] %s\t%s\n",
   TEP_PRINT_COMM, TEP_PRINT_PID,
   TEP_PRINT_TIME, TEP_PRINT_CPU,
   TEP_PRINT_NAME, TEP_PRINT_INFO);
 trace_seq_terminate(&seq);
 trace_seq_do_printf(&seq);
 return 0;
}

int main(int
 argc, char **argv)
{
 struct tracecmd_input *handle;
 struct tep_handle *guest_tep;
 struct stat st;
 FILE *fp;
 char *buf;

 if (argc < 3) {
  printf("usage: trace.dat guest_kallsyms_file\n");
  exit(-1);
 }

 handle = tracecmd_open(argv[1], 0);
 if (!handle) {
  perror(argv[1]);
  exit(-1);
 }

 /* Just for kallsyms parsing */
 guest_tep = tep_alloc();
 if (!guest_tep)
```

```
 exit(-1);

if (stat(argv[2], &st) < 0) {
 perror(argv[2]);
 exit(-1);
}

buf = malloc(st.st_size + 1);
if (!buf)
 exit(-1);

fp = fopen(argv[2], "r");
if (!fp) {
 perror(argv[2]);
 exit(-1);
}

if (fread(buf, st.st_size, 1, fp) < 0) {
 perror(argv[2]);
 exit(-1);
}

buf[st.st_size] = '\0';

if (tep_parse_kallsyms(guest_tep, buf) < 0) {
 printf("Failed to parse %s\n", argv[2]);
 exit(-1);
}
free(buf);

tracecmd_follow_event(handle, "kvm", "kvm_exit", show_event, guest_tep);
tracecmd_follow_event(handle, "kvm", "kvm_entry", show_event, guest_tep);

tracecmd_iterate_events(handle, NULL, 0,
NULL, NULL);

tep_free(guest_tep);
tracecmd_close(handle);
}
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
```

Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE
----
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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kvm-plugin.txt
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libtraceevent(3)
================

NAME
----
tep_find_event,tep_find_event_by_name,tep_find_event_by_record, tep_record_is_event -
Find events by given key.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_event pass:[*]*tep_find_event*(struct tep_handle pass:[*]_tep_, int _id_);
struct tep_event pass:[*]*tep_find_event_by_name*(struct tep_handle pass:[*]_tep_, const char pass:[*]_sys_, const char pass:[*]_name_);
struct tep_event pass:[*]*tep_find_event_by_record*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_record_);
bool *tep_record_is_event*(struct tep_record pass:[*]record, struct tep_event pass:[*]event);
--

DESCRIPTION

This set of functions can be used to search for an event, based on a given

criteria. All functions require a pointer to a _tep_, trace event parser
context.

The *tep_find_event()* function searches for an event by given event _id_. The
event ID is
 assigned dynamically and can be viewed in event's format file,
"ID" field.

The *tep_find_event_by_name()* function searches for an event by given
event _name_, under the system _sys_. If the _sys_ is NULL (not specified),
the first event with _name_ is returned.

The *tep_find_event_by_record()* function searches for an event from a given
record.

The *tep_record_is_event()* function tests if the given _record_ is of the type
of the _event_. This is normally used to know if the _record_ being processed is
of an _event_ where further processing should be done.

RETURN VALUE

All these functions except *tep_record_is_event()* return a pointer to the found event, or NULL if there is no such event.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event;

event = tep_find_event(tep, 1857);
if (event == NULL) {
 /* There is no event with ID 1857 */
}

event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
if
 (event == NULL) {
 /* There is no kvm_exit event, from kvm system */
}

void event_from_record(struct tep_record *record)
{
struct tep_event *event = tep_find_event_by_record(tep, record);

```
 if (event == NULL) {
  /* There is no event from given record */
 }
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS
--------------
Report bugs to  <linux-trace-devel@vger.kernel.org>

LICENSE
-------
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RESOURCES
---------
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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libtraceevent(3)
================

NAME
```

---
kbuffer_read_event, kbuffer_next_event, kbuffer_missed_events, kbuffer_event_size, kbuffer_curr_size,
kbuffer_curr_offset, kbuffer_curr_index, kbuffer_read_buffer -
Functions to read through the kbuffer sub buffer.

SYNOPSIS

[verse]
--
#include <kbuffer.h>

void pass:[*]*kbuffer_read_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_next_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_read_at_offset*(struct kbuffer pass:[*]_kbuf_, int _offset_, unsigned long long pass:[*]_ts_);
int *kbuffer_missed_events*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_event_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_offset*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_index*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_read_buffer*(struct
 kbuffer pass:[*]_kbuf_, void pass:[*]_buffer_, int _len_);
--

DESCRIPTION

The function *kbuffer_read_event()* reads the next event in the _kbuf_ descriptor
and if _ts_ is non NULL, will place its timestamp into it. This does not modify the _kbuf_
descriptor, and calling this function mulitple times will return the same result.

The function *kbuffer_next_event()* will return the next event in the _kbuf_ descriptor.
It will also set the _ts_ to the timestamp of the returned event. NULL is returned
if there are no more events and _ts_ will be undefined. Note, if this is called directly
after a *kbuffer_load_subbuffer()* then it will likely give an unexpected result, as it
will return the second event and not the first event. Usually this function is only used
to move to the next event and to know if there's any more events to read, and
kbuffer_read_event() is always called first.

The function *kbuffer_read_at_offset()* returns the event located at a given
 offset from
the beginning of the sub-buffer. This offset can be retrieved by *kbuffer_curr_offset()*.
If _ts_ points to an unsigned long long, then it will be set to the event at the given
offset's timestamp.

If the sub-buffer had missed events before it, then *kbuffer_missed_events()* will return
the non zero. If it returns -1, that means there were missed events, but the exact number
of missed events is unknown. If it returns a positive number, then the number of missed events
is the return value.

The *kbuffer_event_size()* function returns the size of the data portion of the current event
(the one that would be returned by *kbuffer_read_event()*.

The *kbuffer_curr_size()* function returns the entire record size of the current event
(the one that would be returned by *kbuffer_read_event()*. The difference here is that the
return value includes the size of the event record meta data that is not part of what
is returned by *kbuffer_read_event()*.

The *kbuffer_curr_offset()* function
returns the offset from the beginning of the sub-buffer
of where the current event's meta data for the record begins. The first event will
not be at offset zero. This offset can be used to retrieve the event with
kbuffer_read_at_offset().

The *kbuffer_curr_index()* function returns the index from the beginning of the data
portion of the sub-buffer where the current evnet's meta data is located.
The first event will likely be zero, but may not be if there's a timestamp attached to it.

The *kbuffer_read_buffer()* function will fill the given _buffer_ from the _kbuf_ the same
way the kernel would do a read system call. That is, if the length _len_ is less than the
sub buffer size, or the kbuffer current index is non-zero, it will start copying from the
kbuf current event and create _buffer_ as a new sub buffer (with a timestamp
and commit header) with that event that was found and including all events after that can
fit within _len_. The _len_ must include the size of the sub
buffer header as well as the
events to include. That is, _len_ is the allocate size of _buffer_ that can be filled.
The return from this function is the index of the end of the last event that was added.
If there are no more events then zero is returned, and if the buffer can not
copy any events because _len_ was too small, then -1 is returned.

RETURN VALUE
---
kbuffer_read_event() returns the event that the _kbuf_ descriptor is currently at,
or NULL if the last event was passed (by *kbuffer_next_event()*).

kbuffer_next_event() returns the next event after the current event or NULL if there
are no more events.

kbuffer_read_at_offset() returns the event at a given _offset_ from the start of
the sub-buffer stored in _kbuf_, or NULL if there exists no event. Note, _offset_
only needs to be an offset that lands on the record, or is at the start of it. It does
not need to be exactly at the beginning of the record.

kbuffer_missed_events() returns 0 if there were no missed
events before loaded sub-buffer.
Returns -1 if there were an unknown number of missed events, or if the number of missed events
is known, that number will be returned.

kbuffer_event_size() returns the size of the data payload of the current event of _kbuf_.

kbuffer_curr_size() returns the size of the entire record of the current event of _kbuf_.
This includes the size of the meta data for that record.

kbuf_curr_offset() returns the offset of the current record from the beginning of the _kbuf_
sub-buffer.

kbuf_curr_index() returns the index of the current record from the beginning of the _kbuf_
data section.

kbuf_read_buffer() returns the index of the end of the last event that was filled in
buffer. If there are no more events to copy from _start_ then 0 is returned. If _len_
is not big enough to hold any events, then -1 is returned.

EXAMPLE

[source,c]
--
```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include
 <kbuffer.h>

int main (int argc, char **argv)
{
 unsigned long long ts;
 struct kbuffer *kbuf;
 struct stat st;
 char *buf;
 void *event;
 int save_offset = -1;
 int record_size;
 int offset;
 int index;
 int size;
 int ret;
 int fd;
 int i = 0;

 if (argc < 2) {
  printf("usage: %s raw-subbuffer-page\n", argv[0]);
  printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
```

```
 exit(0);
}

if (stat(argv[1], &st) < 0) {
 perror("stat");
 exit(-1);
}

buf = malloc(st.st_size);
if (!buf) {
 perror("Allocating buffer");
 exit(-1);
}

fd = open(argv[1], O_RDONLY);
if (fd < 0) {
 perror(argv[1]);
 exit(-1);
}

ret = read(fd, buf, st.st_size);
if (ret < 0) {
 perror("Reading buffer");
 exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
      KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
 perror("Creating kbuffer");
 exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
 perror("Loading
sub bufer");
 exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
 fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
  kbuffer_subbuffer_size(kbuf), st.st_size);
 exit(-1);
}

ret = kbuffer_missed_events(kbuf);
if (ret) {
```

```
 if (ret > 0)
  printf("Missed %d events before this buffer\n", ret);
 else
  printf("Missed unknown number of events before this buffer\n");
}
do {
 event = kbuffer_read_event(kbuf, &ts);
 if (event) {
  record_size = kbuffer_curr_size(kbuf);
  offset = kbuffer_curr_offset(kbuf);
  index = kbuffer_curr_index(kbuf);
  size = kbuffer_event_size(kbuf);

  if (i == 20)
   save_offset = offset;
  printf(" event %3d ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n",
         i++, ts, record_size, size, index, offset);
  event = kbuffer_next_event(kbuf, NULL);
 }
} while (event);

if (!event)
 printf("Finished sub buffer\n");

if (save_offset > 0) {
 event = kbuffer_read_at_offset(kbuf, save_offset, &ts);
 if
(!event) {
  fprintf(stderr, "Funny, can't find event 20 at offset %d\n", save_offset);
  exit(-1);
 }
 record_size = kbuffer_curr_size(kbuf);
 offset = kbuffer_curr_offset(kbuf);
 index = kbuffer_curr_index(kbuf);
 size = kbuffer_event_size(kbuf);

 printf("\n saved event 20 ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n\n",
        ts, record_size, size, index, offset);
}
kbuffer_free(kbuf);

return 0;
}
--
FILES
-----
[verse]
--
```

event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
--
REPORTING BUGS

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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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libtraceevent(3)
================

NAME
----
tep_parse_header_page - Parses the data stored in the header page.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_parse_header_page*(struct tep_handle pass:[*]_tep_, char pass:[*]_buf_, unsigned long _size_, int _long_size_);

--

DESCRIPTION

The *tep_parse_header_page()* function parses the header page data from _buf_,
and initializes the _tep_, trace event parser context, with it. The buffer
buf is with _size_, and is supposed to be copied from
tracefs/events/header_page.

Some old kernels do not have header page info, in this case the
tep_parse_header_page() function can be called with _size_ equal to 0. The
tep context is initialized with default values. The _long_size_ can be used in
this use case, to set the size of a long integer to be used.

RETURN VALUE

The *tep_parse_header_page()* function returns 0 in case of success,
 or -1
in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char *buf;
int size;
buf = read_file("/sys/kernel/tracing/events/header_page", &size);
if (tep_parse_header_page(tep, buf, size, sizeof(unsigned long)) != 0) {
 /* Failed to parse the header page */
}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO

----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
================

NAME
----
tep_find_common_field, tep_find_field, tep_find_any_field -
Search for a field in an event.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_format_field pass:[*]*tep_find_common_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_field*(struct tep_event_ormat pass:[*]_event_, const char pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_any_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);
--

DESCRIPTION

These functions search for a field with given name in an event. The field
returned can be used to find the field content from within a data record.

The *tep_find_common_field()* function searches for a common field with _name_
in the _event_.

The *tep_find_field()* function searches for an event specific field with
name in the _event_.

The *tep_find_any_field()*
function searches for any field with _name_ in the
event.

RETURN VALUE

The _tep_find_common_field(), *tep_find_field()* and _tep_find_any_field()_
functions return a pointer to the found field, or NULL in case there is no field
with the requested name.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
...
void get_htimer_info(struct tep_handle *tep, struct tep_record *record)
{
 struct tep_format_field *field;
 struct tep_event *event;
 long long softexpires;
 int mode;
 int pid;

 event = tep_find_event_by_name(tep, "timer", "hrtimer_start");

 field = tep_find_common_field(event, "common_pid");
 if (field == NULL) {
  /* Cannot find "common_pid" field in the event */
 } else {
  /* Get pid from the data record */
  pid = tep_read_number(tep, record->data + field->offset,
        field->size);
 }

 field = tep_find_field(event, "softexpires");
 if (field == NULL) {
```

```
 /* Cannot find "softexpires" event specific field in the event */
} else {
 /* Get
softexpires parameter from the data record */
 softexpires = tep_read_number(tep, record->data + field->offset,
        field->size);
}

field = tep_find_any_field(event, "mode");
if (field == NULL) {
 /* Cannot find "mode" field in the event */
} else
{
 /* Get mode parameter from the data record */
 mode = tep_read_number(tep, record->data + field->offset,
        field->size);
 }
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
==========

NAME
---
tep_get_header_page_size, tep_get_header_timestamp_size, tep_is_old_format -
Get the data stored in the header page, in kernel context.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_header_page_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_header_timestamp_size*(struct tep_handle pass:[*]_tep_);
bool *tep_is_old_format*(struct tep_handle pass:[*]_tep_);
--
DESCRIPTION

These functions retrieve information from kernel context, stored in tracefs
events/header_page. Old kernels do not have header page info, so default values
from user space context are used.

The *tep_get_header_page_size()* function returns the size of a long integer,
in kernel context. The _tep_ argument is trace event parser context.
This information is retrieved from tracefs events/header_page, "commit" field.

The *tep_get_header_timestamp_size()* function returns
the size of timestamps,
in kernel context. The _tep_ argument is trace event parser context. This
information is retrieved from tracefs events/header_page, "timestamp" field.

The *tep_is_old_format()* function returns true if the kernel predates
the addition of events/header_page, otherwise it returns false.

RETURN VALUE

The *tep_get_header_page_size()* function returns the size of a long integer,
in bytes.

The *tep_get_header_timestamp_size()* function returns the size of timestamps,
in bytes.

The *tep_is_old_format()* function returns true, if an old kernel is used to
generate the tracing data, which has no event/header_page. If the kernel is new,
or _tep_ is NULL, false is returned.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
 int longsize;
 int timesize;
 bool old;

 longsize = tep_get_header_page_size(tep);
 timesize = tep_get_header_timestamp_size(tep);
 old = tep_is_old_format(tep);

 printf ("%s kernel
 is used to generate the tracing data.\n",
  old?"Old":"New");
 printf("The size of a long integer is %d bytes.\n", longsize);
 printf("The timestamps size is %d bytes.\n", timesize);
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
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libtraceevent(3)
================

NAME
----
tep_set_function_resolver, tep_reset_function_resolver, tep_register_function, tep_register_print_string, tep_get_function_count - function related tep APIs

SYNOPSIS

[verse]
--
#include <event-parse.h>

typedef char pass:[*](*tep_func_resolver_t*)(void pass:[*]_priv_, unsigned long long pass:[*]_addrp_, char pass:[**]_modp_);
int *tep_set_function_resolver*(struct tep_handle pass:[*]_tep_, tep_func_resolver_t pass:[*]_func_, void pass:[*]_priv_);
void *tep_reset_function_resolver*(struct tep_handle pass:[*]_tep_);
int *tep_register_function*(struct tep_handle pass:[*]_tep_, char pass:[*]_name_, unsigned long long _addr_, char pass:[*]_mod_);
int *tep_register_print_string*(struct tep_handle pass:[*]_tep_, const char pass:[*]_fmt_, unsigned long long _addr_);
int *tep_get_function_count*(struct tep_handle *_tep_)

--

DESCRIPTION

Some tools may have already
a way to resolve the kernel functions. These APIs
allow them to keep using it instead of duplicating all the entries inside.

The _tep_func_resolver_t_ type is the prototype of the alternative kernel functions resolver. This function receives a pointer to its custom context (set with the *tep_set_function_resolver()* call) and the address of a kernel function, which has to be resolved. In case of success, it should return the name of the function and its module (if any) in _modp_.

The *tep_set_function_resolver()* function registers _func_ as an alternative kernel functions resolver. The _tep_ argument is trace event parser context. The _priv_ argument is a custom context of the _func_ function. The function resolver is used by the APIs *tep_find_function*(3), *tep_find_function_address*(3), and *tep_print_func_field()* to resolve a function address to a function name.

The *tep_reset_function_resolver()* function resets the kernel functions resolver to the default function.
The _tep_ argument is trace event parser
context.

These APIs can be used to find function name and start address, by given address. The given address does not have to be exact, it will select the function that would contain it.

The *tep_register_function()* function registers a function name mapped to an address and (optional) module. This mapping is used in case the function tracer or events have "%pS" parameter in its format string. It is common to pass in the kallsyms function names with their corresponding addresses with this function. The _tep_ argument is the trace event parser context. The _name_ is the name of the function, the string is copied internally. The _addr_ is the start address of the function. The _mod_ is the kernel module the function may be in (NULL for none).

The *tep_register_print_string()* function registers a string by the address it was stored in the kernel. Some strings internal to the kernel with static address are passed to certain events. The "%s" in
the event's format field
which has an address needs to know what string would be at that address. The tep_register_print_string() supplies the parsing with the mapping between kernel addresses and those strings. The _tep_ argument is the trace event parser context. The _fmt_ is the string to register, it is copied internally.

The _addr_ is the address the string was located at.

tep_get_function_count() returns the number of registered functions in a tep handler.

RETURN VALUE

The *tep_set_function_resolver()* function returns 0 in case of success, or -1
in case of an error.

The *tep_register_function()* function returns 0 in case of success. In case of
an error -1 is returned, and errno is set to the appropriate error number.

The *tep_register_print_string()* function returns 0 in case of success. In case
of an error -1 is returned, and errno is set to the appropriate error number.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
...
struct tep_handle *tep =
 tep_alloc();
...
char *my_resolve_kernel_addr(void *context,
       unsigned long long *addrp, char **modp)
{
 struct db *function_database = context;
 struct symbol *sym = sql_lookup(function_database, *addrp);

 if (!sym)
  return NULL;

 *modp = sym->module_name;
 return sym->name;
}

void show_function( unsigned long long addr)
{
 unsigned long long fstart;
 const char *fname;

 if (tep_set_function_resolver(tep, my_resolve_kernel_addr,
        function_database) != 0) {
  /* failed to register my_resolve_kernel_addr */
 }

 /* These APIs use my_resolve_kernel_addr() to resolve the addr */
```

```
 fname = tep_find_function(tep, addr);
 fstart = tep_find_function_address(tep, addr);

 /*
    addr is in function named fname, starting at fstart address,
    at offset (addr - fstart)
 */

 tep_reset_function_resolver(tep);

}
...
 if (tep_register_function(tep, "kvm_exit",
    (unsigned long long) 0x12345678, "kvm") != 0) {
  /* Failed to register kvm_exit address mapping */
 }
...
 if (tep_register_print_string(tep,
 "print string",
    (unsigned long long) 0x87654321, NULL) != 0) {
  /* Failed to register "print string" address mapping */
 }
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
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https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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libtraceevent(3)
================

NAME
----
tep_print_printk, tep_print_funcs, tep_set_test_filters, tep_plugin_print_options -
Print libtraceevent internal information.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_printk*(struct tep_handle pass:[*]tep);
void *tep_print_funcs*(struct tep_handle pass:[*]tep);
void *tep_set_test_filters*(struct tep_handle pass:[*]tep, int test_filters);
void *tep_plugin_print_options*(struct trace_seq pass:[*]s);
--

DESCRIPTION

The *tep_print_printk()* function prints the printk string formats that were
stored for this tracing session. The _tep_ argument is trace event parser context.

The *tep_print_funcs()* function prints the stored function name to address mapping
for this tracing session. The _tep_ argument is trace event parser context.

The *tep_set_test_filters()* function sets a flag to test a filter string. If
 this
flag is set, when *tep_filter_add_filter_str()* API as called, it will print the filter
string instead of adding it. The _tep_ argument is trace event parser context.
The _test_filters_ argument is the test flag that will be set.

The *tep_plugin_print_options()* function writes a list of the registered plugin options
into _s_.

EXAMPLE

[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
 tep_print_printk(tep);
...
 tep_print_funcs(tep);
...
struct tep_event_filter *filter = tep_filter_alloc(tep);
 tep_set_test_filters(tep, 1);
 tep_filter_add_filter_str(filter, "sched/sched_wakeup:target_cpu==1");
 tep_set_test_filters(tep, 0);
 tep_filter_free(filter);
...
struct trace_seq seq;
trace_seq_init(&seq);

 tep_plugin_print_options(&s);
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses
 the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
==========

NAME
---
tep_get_page_size, tep_set_page_size, tep_get_sub_buffer_data_size, tep_get_sub_buffer_size - Get / set the size of a memory page on
the machine, where the trace is generated

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_page_size*(struct tep_handle pass:[*]_tep_);
void *tep_set_page_size*(struct tep_handle pass:[*]_tep_, int _page_size_);
int *tep_get_sub_buffer_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_data_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_commit_offset*(struct tep_handle pass:[*]_tep_);
--

DESCRIPTION

The *tep_get_page_size()* function returns the size of a memory page on
the machine, where the trace is generated. The _tep_ argument is trace
event parser context.

The *tep_set_page_size()* function stores in the _tep_ context the size of a memory page on the machine, where the trace
is generated.
The _tep_ argument is trace event parser context.
The _page_size_ argument is the size of a memory page, in bytes.

The *tep_get_sub_buffer_size()* returns the size of each "sub buffer" of the ring buffer. The Linux kernel ring buffer is broken up into sections called sub buffers. This returns the size of those buffers.

The *tep_get_sub_buffer_data_size()* returns the size of just the data portion of the sub buffers.

The *tep_get_sub_buffer_commit_offset()* returns the offset on the sub buffer that holds the committed portion of data. This number contains the index from the data portion of the sub buffer that is the end of the last element on the sub buffer.

RETURN VALUE

The *tep_get_page_size()* function returns size of the memory page, in bytes.

The *tep_get_sub_buffer_size()* function returns the number of bytes each sub buffer is made up of.

The *tep_get_sub_buffer_commit_offset()* function returns the location on the sub buffer that contains the
index of the last element.

EXAMPLE

[source,c]
--
#include <unistd.h>
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int page_size = getpagesize();

tep_set_page_size(tep, page_size);

printf("The page size for this machine is %d\n", tep_get_page_size(tep));

--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
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libtraceevent(3)
================

NAME
----
tep_print_event - Writes event information into a trace sequence.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_event*(struct tep_handle pass:[*]_tep_, struct trace_seqpass:[*]_s_, struct tep_record pass:[*]_record_, const char pass:[*]_fmt_, _..._)
--

DESCRIPTION

The *tep_print_event()* function parses the event information of the given _record_ and writes it into the trace sequence _s_, according to the format string _fmt_. The desired information is specified after the format string.
The _fmt_ is printf-like format string, following arguments are supported:
[verse]
--
 TEP_PRINT_PID, "%d" - PID of the event.
 TEP_PRINT_CPU, "%d" - Event CPU.
 TEP_PRINT_COMM, "%s" - Event command string.
 TEP_PRINT_NAME, "%s" - Event name.
 TEP_PRINT_LATENCY, "%s" - Latency of the event. It prints 4 or more
  fields -
 interrupt state, scheduling state,
  current context, and preemption count.
  Field 1 is the interrupt enabled state:
   d : Interrupts are disabled
   . : Interrupts are enabled
   X : The architecture does not support this
       information
  Field 2 is the "need resched" state.
   N : The task is set to call the scheduler when
       possible, as another higher priority task
       may need to be scheduled in.
   . : The task is not set to call the scheduler.
  Field 3 is the context state.
   . : Normal context
   s : Soft interrupt context
   h : Hard interrupt context
   H : Hard interrupt context which triggered
       during soft interrupt context.
   z : NMI context
   Z : NMI context which triggered during hard
       interrupt context
  Field 4 is the preemption count.

. : The preempt count is zero.
On preemptible kernels (where the task can be scheduled
out in arbitrary locations while in kernel context), the
preempt count, when non zero,
will prevent the kernel
from scheduling out the current task. The preempt count
number is displayed when it is not zero.
Depending on the kernel, it may show other fields
(lock depth, or migration disabled, which are unique to
specialized kernels).
TEP_PRINT_TIME, %d - event time stamp. A divisor and precision can be
specified as part of this format string:
"%precision.divisord". Example:
"%3.1000d" - divide the time by 1000 and print the first
3 digits before the dot. Thus, the time stamp
"123456000" will be printed as "123.456"
TEP_PRINT_INFO, "%s" - event information.
TEP_PRINT_INFO_RAW, "%s" - event information, in raw format.

--
EXAMPLE

[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct trace_seq seq;
trace_seq_init(&seq);
struct tep_handle *tep = tep_alloc();
...
void print_my_event(struct tep_record *record)
{
trace_seq_reset(&seq);
tep_print_event(tep, s, record, "%16s-%-5d [%03d] %s %6.1000d %s %s",
TEP_PRINT_COMM,
TEP_PRINT_PID, TEP_PRINT_CPU,
TEP_PRINT_LATENCY, TEP_PRINT_TIME, TEP_PRINT_NAME,
TEP_PRINT_INFO);
}
...
--

FILES

[verse]
--
event-parse.h

Header file to include in order to have access to the library APIs.
trace-seq.h
Header file to include in order to have access to trace sequences related APIs.
Trace sequences are used to allow a function to call several other functions
to create a string of data to use.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
================

NAME
----
tep_read_number_field - Reads a number from raw data.

SYNOPSIS

[verse]
--

#include <event-parse.h>

int *tep_read_number_field*(struct tep_format_field pass:[*]_field_, const void pass:[*]_data_, unsigned long long pass:[*]_value_);
--

DESCRIPTION

The *tep_read_number_field()* function reads the value of the _field_ from the raw _data_ and stores it in the _value_. The function sets the _value_ according to the endianness of the raw data and the current machine and stores it in _value_.

RETURN VALUE

The *tep_read_number_field()* function retunrs 0 in case of success, or -1 in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event = tep_find_event_by_name(tep, "timer", "hrtimer_start");
...
void process_record(struct tep_record *record)
{
 unsigned
 long long pid;
 struct tep_format_field *field_pid = tep_find_common_field(event, "common_pid");

 if (tep_read_number_field(field_pid, record->data, &pid) != 0) {
  /* Failed to get "common_pid" value */
 }
}
...
--
FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.

--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
================

NAME
----
tep_set_flag, tep_clear_flag, tep_test_flag -
Manage flags of trace event parser context.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_flag* {
 _TEP_NSEC_OUTPUT_,
 _TEP_DISABLE_SYS_PLUGINS_,
 _TEP_DISABLE_PLUGINS_
};

void *tep_set_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
void *tep_clear_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
bool *tep_test_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
--

DESCRIPTION

Trace event parser context flags are defined in *enum tep_flag*:
[verse]
--
_TEP_NSEC_OUTPUT_ - print event's timestamp in nano seconds, instead of micro seconds.
_TEP_DISABLE_SYS_PLUGINS_ - disable plugins, located in system's plugin
  directory. This directory is defined at library compile
  time, and usually depends on library installation
  prefix: (install_preffix)/lib/traceevent/plugins
_TEP_DISABLE_PLUGINS_
 - disable all library plugins:
  - in system's plugin directory
  - in directory, defined by the environment variable _TRACEEVENT_PLUGIN_DIR_
  - in user's home directory, _~/.traceevent/plugins_
--
Note: plugin related flags must me set before calling *tep_load_plugins()* API.

The *tep_set_flag()* function sets _flag_ to _tep_ context.

The *tep_clear_flag()* function clears _flag_ from _tep_ context.

The *tep_test_flag()* function tests if _flag_ is set to _tep_ context.

RETURN VALUE
---
tep_test_flag() function returns true if _flag_ is set, false otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
/* Print timestamps in nanoseconds */
tep_set_flag(tep, TEP_NSEC_OUTPUT);
...
if (tep_test_flag(tep, TEP_NSEC_OUTPUT)) {
 /* print timestamps in nanoseconds */
} else {
 /* print timestamps in microseconds */

```
}
...
/* Print timestamps in microseconds */
tep_clear_flag(tep, TEP_NSEC_OUTPUT);
...
--
FILES
-----
[verse]
--
*event-parse.h*
 Header
 file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
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*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
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libtraceevent(3)
================

NAME
```

---
tep_register_print_function,tep_unregister_print_function -
Registers / Unregisters a helper function.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_func_arg_type* {
 TEP_FUNC_ARG_VOID,
 TEP_FUNC_ARG_INT,
 TEP_FUNC_ARG_LONG,
 TEP_FUNC_ARG_STRING,
 TEP_FUNC_ARG_PTR,
 TEP_FUNC_ARG_MAX_TYPES
};

typedef unsigned long long (*pass:[*]tep_func_handler*)(struct trace_seq pass:[*]s, unsigned long long pass:[*]args);

int *tep_register_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, enum tep_func_arg_type _ret_type_, char pass:[*]_name_, _..._);
int *tep_unregister_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, char pass:[*]_name_);
--

DESCRIPTION

Some events may have helper functions in the print format arguments.
This allows a plugin to dynamically create a way to process one of
these functions.

The
 tep_register_print_function() registers such helper function. The _tep_
argument is the trace event parser context. The _func_ argument is a pointer
to the helper function. The _ret_type_ argument is the return type of the
helper function, value from the _tep_func_arg_type_ enum. The _name_ is the name
of the helper function, as seen in the print format arguments. The _..._ is a
variable list of _tep_func_arg_type_ enums, the _func_ function arguments.
This list must end with _TEP_FUNC_ARG_VOID_. See 'EXAMPLE' section.

The *tep_unregister_print_function()* unregisters a helper function, previously
registered with *tep_register_print_function()*. The _tep_ argument is the
trace event parser context. The _func_ and _name_ arguments are the same, used
when the helper function was registered.

The _tep_func_handler_ is the type of the helper function. The _s_ argument is
the trace sequence, it can be used to create a custom string.
The _args_ is a list of arguments, defined when
the helper function was
registered.

RETURN VALUE

The *tep_register_print_function()* function returns 0 in case of success.
In case of an error, TEP_ERRNO_... code is returned.

The *tep_unregister_print_function()* returns 0 in case of success, or -1 in
case of an error.

EXAMPLE

Some events have internal functions calls, that appear in the print format
output. For example "tracefs/events/i915/g4x_wm/format" has:
[source,c]
--
```
print fmt: "pipe %c, frame=%u, scanline=%u, wm %d/%d/%d, sr %s/%d/%d/%d, hpll %s/%d/%d/%d, fbc %s",
    ((REC->pipe) + 'A'), REC->frame, REC->scanline, REC->primary,
    REC->sprite, REC->cursor, yesno(REC->cxsr), REC->sr_plane,
    REC->sr_cursor, REC->sr_fbc, yesno(REC->hpll), REC->hpll_plane,
    REC->hpll_cursor, REC->hpll_fbc, yesno(REC->fbc)
```
--
Notice the call to function *yesno()* in the print arguments. In the kernel
context, this function has the following implementation:
[source,c]
--
```
static const char *yesno(int x)
{
 static
 const char *yes = "yes";
 static const char *no = "no";

 return x ? yes : no;
}
```
--
The user space event parser has no idea how to handle this *yesno()* function.
The *tep_register_print_function()* API can be used to register a user space
helper function, mapped to the kernel's *yesno()*:
[source,c]
--
```
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
```

```
...
static const char *yes_no_helper(int x)
{
 return x ? "yes" : "no";
}
...
 if ( tep_register_print_function(tep,
        yes_no_helper,
        TEP_FUNC_ARG_STRING,
        "yesno",
        TEP_FUNC_ARG_INT,
        TEP_FUNC_ARG_VOID) != 0) {
  /* Failed to register yes_no_helper function */
 }

/*
  Now, when the event parser encounters this yesno() function, it will know
  how to handle it.
*/
...
 if (tep_unregister_print_function(tep, yes_no_helper, "yesno") != 0) {
  /* Failed to unregister yes_no_helper function */
 }
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include
 in order to have access to the library APIs.
*trace-seq.h*
 Header file to include in order to have access to trace sequences
 related APIs. Trace sequences are used to allow a function to call
 several other functions to create a string of data to use.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
```

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
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libtraceevent(3)
==========

NAME
---
tep_print_field_content, tep_print_fields, tep_print_num_field, tep_print_func_field, tep_record_print_fields, tep_record_print_selected_fields -
Print the field content.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_field_content*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int size, struct tep_format_field pass:[*]_field_);
void *tep_print_fields*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int _size_, struct tep_event pass:[*]_event_);
int *tep_print_num_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
int *tep_print_func_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int
 err);
void *tep_record_print_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_);
void *tep_record_print_selected_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_, int _select_mask_);

--

DESCRIPTION

These functions print recorded field's data, according to the field's type.

The *tep_print_field_content()* function extracts from the recorded raw _data_ value of the _field_ and prints it into _s_, according to the field type.

The *tep_print_fields()* prints each field name followed by the record's field value according to the field's type:
[verse]
--
"field1_name=field1_value field2_name=field2_value ..."
--
It iterates all fields of the _event_, and calls *tep_print_field_content()* for each of them.

The *tep_print_num_field()* function prints a numeric field with given format string. A search is performed in the _event_ for a field with _name_. If such field
is found, its value is extracted from the _record_ and is printed in the _s_, according to the given format string _fmt_. If the argument _err_ is non-zero, and an error occures - it is printed in the _s_.

The *tep_print_func_field()* function prints a function field with given format string. A search is performed in the _event_ for a field with _name_. If such field is found, its value is extracted from the _record_. The value is assumed to be a function address, and a search is perform to find the name of this function. The function name (if found) and its address are printed in the _s_, according to the given format string _fmt_. If the argument _err_ is non-zero, and an error occures - it is printed in _s_.

The *tep_record_print_fields()* prints the field's name followed by its value for all record's field.

The *tep_record_print_selected_fields()* prints the field's name followed by its value for selected subset of record field. The fields to be printed are defined by the _select_mask_
bit mask.

RETURN VALUE

The *tep_print_num_field()* and *tep_print_func_field()* functions return 1 on success, -1 in case of an error or 0 if the print buffer _s_ is full.

EXAMPLE

[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
struct trace_seq seq;
trace_seq_init(&seq);
struct tep_event *event = tep_find_event_by_name(tep, "timer", "hrtimer_start");
...
void process_record(struct tep_record *record)
{
 struct tep_format_field *field_pid = tep_find_common_field(event, "common_pid");

 trace_seq_reset(&seq);

 /* Print the value of "common_pid" */
 tep_print_field_content(&seq, record->data, record->size, field_pid);

 /* Print all fields of the "hrtimer_start" event */
 tep_print_fields(&seq, record->data, record->size, event);

 /* Print the value of "expires" field with custom format string */
 tep_print_num_field(&seq, " timer expires in %llu ", event, "expires", record, 0);

 /* Print the
 address and the name of "function" field with custom format string */
 tep_print_func_field(&seq, " timer function is %s ", event, "function", record, 0);
}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences related APIs.
 Trace sequences are used to allow a function to call several other functions
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SEE ALSO

----
libtraceevent(3), *trace-cmd*(1)

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libtraceevent(3)
================

NAME
----
tep_load_plugins, tep_unload_plugins, tep_load_plugins_hook, tep_add_plugin_path,
tep_plugin_add_option - Load / unload traceevent plugins.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_plugin_list pass:[*]*tep_load_plugins*(struct tep_handle pass:[*]_tep_);
void *tep_unload_plugins*(struct tep_plugin_list pass:[*]_plugin_list_, struct tep_handle pass:[*]_tep_);
void *tep_load_plugins_hook*(struct tep_handle pass:[*]_tep_, const char pass:[*]_suffix_,
    void (pass:[*]_load_plugin_)(struct tep_handle pass:[*]tep,
        const char pass:[*]path,
        const char pass:[*]name,
        void pass:[*]data),
    void pass:[*]_data_);

int *tep_add_plugin_path*(struct tep_handle pass:[*]tep, char pass:[*]path,
    enum tep_plugin_load_priority prio);
int *tep_plugin_add_option*(const char pass:[*]_name_, const char pass:[*]_val_);
--

DESCRIPTION

The
 tep_load_plugins() function loads all plugins, located in the plugin
directories. The _tep_ argument is trace event parser context.
The plugin directories are :
[verse]
--
 - Directories, specified in _tep_->plugins_dir with priority TEP_PLUGIN_FIRST
 - System's plugin directory, defined at the library compile time. It
   depends on the library installation prefix and usually is
   _(install_preffix)/lib/traceevent/plugins_
 - Directory, defined by the environment variable _TRACEEVENT_PLUGIN_DIR_
 - User's plugin directory, located at _~/.local/lib/traceevent/plugins_
 - Directories, specified in _tep_->plugins_dir with priority TEP_PLUGIN_LAST
--
Loading of plugins can be controlled by the _tep_flags_, using the
tep_set_flag() API:
[verse]
--
 _TEP_DISABLE_SYS_PLUGINS_ - do not load plugins, located in
    the system's plugin directory.
 _TEP_DISABLE_PLUGINS_ - do not load any plugins.
--
The *tep_set_flag()* API needs to be called before *tep_load_plugins()*,
 if
loading of all plugins is not the desired case.

The *tep_unload_plugins()* function unloads the plugins, previously loaded by
tep_load_plugins(). The _tep_ argument is trace event parser context. The
_plugin_list_ is the list of loaded plugins, returned by
the *tep_load_plugins()* function.

The *tep_load_plugins_hook()* function walks through all directories with plugins
and calls user specified *load_plugin()* hook for each plugin file. Only files
with given _suffix_ are considered to be plugins. The _data_ is a user specified
context, passed to *load_plugin()*. Directories and the walk order are the same
as in *tep_load_plugins()* API.

The *tep_add_plugin_path()* functions adds additional directories with plugins in
the _tep_->plugins_dir list. It must be called before *tep_load_plugins()* in order
for the plugins from the new directories to be loaded. The _tep_ argument is
the trace event parser context. The _path_ is the full path to the new plugin

directory. The _prio_
 argument specifies the loading priority order for the
new directory of plugins. The loading priority is important in case of different
versions of the same plugin located in multiple plugin directories.The last loaded
plugin wins. The priority can be:
[verse]
--
 _TEP_PLUGIN_FIRST_ - Load plugins from this directory first
 _TEP_PLUGIN_LAST_ - Load plugins from this directory last
--
Where the plugins in TEP_PLUGIN_LAST" will take precedence over the
plugins in the other directories.

The *tep_plugin_add_option()* sets options defined by a plugin. The _name_ is the
name of the option to set to _val_. Plugins can add options to change its behavior
and *tep_plugin_add_option()* is used by the application to make those modifications.

RETURN VALUE

The *tep_load_plugins()* function returns a list of successfully loaded plugins,
or NULL in case no plugins are loaded.
The *tep_add_plugin_path()* function returns -1 in case of an error, 0 otherwise.

EXAMPLE

[source,c]
--
#include
 <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
tep_add_plugin_path(tep, "~/dev_plugins", TEP_PLUGIN_LAST);
...
struct tep_plugin_list *plugins = tep_load_plugins(tep);
if (plugins == NULL) {
 /* no plugins are loaded */
}
...
tep_unload_plugins(plugins, tep);
...
void print_plugin(struct tep_handle *tep, const char *path,
    const char *name, void *data)
{
 pritnf("Found libtraceevent plugin %s/%s\n", path, name);
}
...

tep_load_plugins_hook(tep, ".so", print_plugin, NULL);
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1), *tep_set_flag*(3)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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RESOURCES
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libtraceevent(3)
================

NAME
----
tep_get_cpus, tep_set_cpus - Get / set the number of CPUs, which have a tracing

buffer representing it. Note, the buffer may be empty.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_cpus*(struct tep_handle pass:[*]_tep_);
void *tep_set_cpus*(struct tep_handle pass:[*]_tep_, int _cpus_);
--

DESCRIPTION

The *tep_get_cpus()* function gets the number of CPUs, which have a tracing
buffer representing it. The _tep_ argument is trace event parser context.

The *tep_set_cpus()* function sets the number of CPUs, which have a tracing
buffer representing it. The _tep_ argument is trace event parser context.
The _cpu_ argument is the number of CPUs with tracing data.

RETURN VALUE

The *tep_get_cpus()* functions returns the number of CPUs, which have tracing
data recorded.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct
 tep_handle *tep = tep_alloc();
...
 tep_set_cpus(tep, 5);
...
 printf("We have tracing data for %d CPUs", tep_get_cpus(tep));
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.

--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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libtraceevent(3)
================

NAME
----
trace_seq_init, trace_seq_destroy, trace_seq_reset, trace_seq_terminate,
trace_seq_putc, trace_seq_puts, trace_seq_printf, trace_seq_vprintf,
trace_seq_do_fprintf, trace_seq_do_printf -
Initialize / destroy a trace sequence.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *trace_seq_init*(struct trace_seq pass:[*]_s_);
void *trace_seq_destroy*(struct trace_seq pass:[*]_s_);

void *trace_seq_reset*(struct trace_seq pass:[*]_s_);
void *trace_seq_terminate*(struct trace_seq pass:[*]_s_);
int *trace_seq_putc*(struct trace_seq pass:[*]_s_, unsigned char _c_);
int *trace_seq_puts*(struct trace_seq pass:[*]_s_, const char pass:[*]_str_);
int *trace_seq_printf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, _..._);
int *trace_seq_vprintf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, va_list _args_);
int *trace_seq_do_printf*(struct
trace_seq pass:[*]_s_);
int *trace_seq_do_fprintf*(struct trace_seq pass:[*]_s_, FILE pass:[*]_fp_);
--

DESCRIPTION

Trace sequences are used to allow a function to call several other functions
to create a string of data to use.

The *trace_seq_init()* function initializes the trace sequence _s_.

The *trace_seq_destroy()* function destroys the trace sequence _s_ and frees
all its resources that it had used.

The *trace_seq_reset()* function re-initializes the trace sequence _s_. All
characters already written in _s_ will be deleted.

The *trace_seq_terminate()* function terminates the trace sequence _s_. It puts
the null character pass:['\0'] at the end of the buffer.

The *trace_seq_putc()* function puts a single character _c_ in the trace
sequence _s_.

The *trace_seq_puts()* function puts a NULL terminated string _str_ in the
trace sequence _s_.

The *trace_seq_printf()* function puts a formated string _fmt _with
variable arguments _..._ in the trace sequence
_s_.

The *trace_seq_vprintf()* function puts a formated string _fmt _with
list of arguments _args_ in the trace sequence _s_.

The *trace_seq_do_printf()* function prints the buffer of trace sequence _s_ to
the standard output stdout.

The *trace_seq_do_fprintf()* function prints the buffer of trace sequence _s_
to the given file _fp_.

RETURN VALUE

Both *trace_seq_putc()* and *trace_seq_puts()* functions return the number of characters put in the trace sequence, or 0 in case of an error

Both *trace_seq_printf()* and *trace_seq_vprintf()* functions return 0 if the trace oversizes the buffer's free space, the number of characters printed, or a negative value in case of an error.

Both *trace_seq_do_printf()* and *trace_seq_do_fprintf()* functions return the number of printed characters, or -1 in case of an error.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
#include <trace-seq.h>
...
struct trace_seq seq;
trace_seq_init(&seq);
...
void foo_seq_print(struct trace_seq
 *tseq, char *format, ...)
{
 va_list ap;
 va_start(ap, format);
 if (trace_seq_vprintf(tseq, format, ap) <= 0) {
  /* Failed to print in the trace sequence */
 }
 va_end(ap);
}

trace_seq_reset(&seq);

char *str = " MAN page example";
if (trace_seq_puts(&seq, str) != strlen(str)) {
 /* Failed to put str in the trace sequence */
}
if (trace_seq_putc(&seq, ':') != 1) {
 /* Failed to put ':' in the trace sequence */
}
if (trace_seq_printf(&seq, " trace sequence: %d", 1) <= 0) {
 /* Failed to print in the trace sequence */
}
foo_seq_print( &seq, "  %d\n", 2);

trace_seq_terminate(&seq);
...
```

```
if (trace_seq_do_printf(&seq) < 0 ) {
 /* Failed to print the sequence buffer to the standard output */
}
FILE *fp = fopen("trace.txt", "w");
if (trace_seq_do_fprintf(&seq, fp) < 0 ) [
 /* Failed to print the sequence buffer to the trace.txt file */
}

trace_seq_destroy(&seq);
...
```
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header
 file to include in order to have access to trace sequences related APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
==========

NAME
----
tep_find_function,tep_find_function_address,tep_find_function_info - Find function name / start address.

SYNOPSIS

[verse]
--
#include <event-parse.h>

const char pass:[*]*tep_find_function*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
unsigned long long *tep_find_function_address*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
int *tep_find_function_info*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_, const char
pass:[**]_name_,
    unsigned long long pass:[*]_start_, unsigned long pass:[*]_size_);
--

DESCRIPTION

These functions can be used to find function name and start address, by given
address. The given address does not have to be exact, it will select the function
that would contain it.

The *tep_find_function()* function returns the function name, which contains the
given address _addr_. The _tep_
 argument is the trace event parser context.

The *tep_find_function_address()* function returns the function start address,
by given address _addr_. The _addr_ does not have to be exact, it will select the
function that would contain it. The _tep_ argument is the trace event parser context.

The *tep_find_function_info()* function retrieves the _name_, starting address (_start_),
and the function text _size_ of the function at _address_, if it is found. Note,
if the _tep_ handle has a function resolver (used by perf), then _size_ is set to
zero.

RETURN VALUE

The *tep_find_function()* function returns the function name, or NULL in case
it cannot be found.

The *tep_find_function_address()* function returns the function start address,
or 0 in case it cannot be found.

The *tep_find_function_info()* function returns 1 if a function is found for the
given address, or 0 if it is not.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void
 show_function_name(unsigned long long addr)
{
 const char *fname = tep_find_function(tep, addr);

 if (fname)
  printf("Found function %s at 0x%0llx\n", fname, addr);
 else
  printf("No function found at 0x%0llx\n", addr);
}

void show_function_start_addr(unsigned long long addr)
{
 const char *fname = tep_find_function(tep, addr);
 unsigned long long fstart;

 if (!fname) {
  printf("No function found at 0x%0llx\n", addr);
  return;
 }

 fstart = tep_find_function_address(tep, addr);
 printf("Function %s at 0x%llx starts at 0x%0llx\n",
        fname, addr, fstart);
}

void show_function_info(unsigned long long addr)
{
 const char *fname;
 unsigned long long fstart;
 unsigned long size;

 ret = tep_find_function_info(tep, addr, &fname, &fstart, &size);
 if (!ret) {
```

```
 printf("No function found at 0x%0lx\n", addr);
 return;
 }

 printf("Function %s at 0x%lx starts at 0x%0lx and is %ld in size\n",
        fname, addr, fstart, size);
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header
 file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
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```

libtraceevent(3)
==========

NAME
----
libtraceevent - Linux kernel trace event library

SYNOPSIS

[verse]
--
#include <event-parse.h>

Management of tep handler data structure and access of its members:
 struct tep_handle pass:[*]*tep_alloc*(void);
 void *tep_free*(struct tep_handle pass:[*]_tep_);
 void *tep_ref*(struct tep_handle pass:[*]_tep_);
 void *tep_unref*(struct tep_handle pass:[*]_tep_);
 int *tep_get_ref*(struct tep_handle pass:[*]_tep_);
 void *tep_set_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
 void *tep_clear_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
 bool *tep_test_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flags_);
 int *tep_get_cpus*(struct tep_handle pass:[*]_tep_);
 void *tep_set_cpus*(struct tep_handle pass:[*]_tep_, int _cpus_);
 int *tep_get_long_size*(strucqt tep_handle pass:[*]_tep_);
 void *tep_set_long_size*(struct tep_handle
 pass:[*]_tep_, int _long_size_);
 int *tep_get_page_size*(struct tep_handle pass:[*]_tep_);
 void *tep_set_page_size*(struct tep_handle pass:[*]_tep_, int _page_size_);
 int *tep_get_sub_buffer_size*(struct tep_handle pass:[*]_tep_);
 int *tep_get_sub_buffer_data_size*(struct tep_handle pass:[*]_tep_);
 int *tep_get_sub_buffer_commit_offset*(struct tep_handle pass:[*]_tep_);
 int *tep_get_header_page_size*(struct tep_handle pass:[*]_tep_);
 int *tep_get_header_timestamp_size*(struct tep_handle pass:[*]_tep_);
 bool *tep_is_old_format*(struct tep_handle pass:[*]_tep_);
 int *tep_strerror*(struct tep_handle pass:[*]_tep_, enum tep_errno _errnum_, char pass:[*]_buf_, size_t _buflen_);
 struct kbuffer pass:[*]*tep_kbuffer*(struct tep_handle pass:[*]_tep_);

Register / unregister APIs:
 int *tep_register_function*(struct tep_handle pass:[*]_tep_, char pass:[*]_name_, unsigned long long _addr_, char pass:[*]_mod_);
 int *tep_register_event_handler*(struct tep_handle pass:[*]_tep_, int _id_,
 const char pass:[*]_sys_name_, const char pass:[*]_event_name_, tep_event_handler_func _func_, void pass:[*]_context_);
 int *tep_unregister_event_handler*(struct tep_handle pass:[*]tep, int id, const char pass:[*]sys_name, const char pass:[*]event_name, tep_event_handler_func func, void pass:[*]_context_);
 int *tep_register_print_string*(struct tep_handle pass:[*]_tep_, const char pass:[*]_fmt_, unsigned long long _addr_);

```
 int *tep_register_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, enum
tep_func_arg_type _ret_type_, char pass:[*]_name_, _..._);
 int *tep_unregister_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, char
pass:[*]_name_);
 int *tep_get_function_count*(struct tep_handle *_tep_);

Trace printk parsing:
 void *tep_print_printk*(struct tep_handle pass:[*]tep);
 void *tep_print_funcs*(struct tep_handle pass:[*]tep);
 void *tep_set_test_filters*(struct tep_handle pass:[*]tep, int test_filters);
 void *tep_plugin_print_options*(struct
 trace_seq pass:[*]s);
 int *tep_plugin_add_option*(const char pass:[*]_name_, const char pass:[*]_val_);

Meta data parsing:
 int *tep_parse_saved_cmdlines*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
 int *tep_parse_printk_formats*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
 int *tep_parse_kallsyms*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);

Plugins management:
 struct tep_plugin_list pass:[*]*tep_load_plugins*(struct tep_handle pass:[*]_tep_);
 void *tep_unload_plugins*(struct tep_plugin_list pass:[*]_plugin_list_, struct tep_handle pass:[*]_tep_);
 char pass:[*]pass:[*]*tep_plugin_list_options*(void);
 void *tep_plugin_free_options_list*(char pass:[*]pass:[*]_list_);
 int *tep_plugin_add_options*(const char pass:[*]_name_, struct tep_plugin_option pass:[*]_options_);
 void *tep_plugin_remove_options*(struct tep_plugin_option pass:[*]_options_);
 void *tep_print_plugins*(struct trace_seq pass:[*]_s_, const char pass:[*]_prefix_,
 const char pass:[*]_suffix_, const struct tep_plugin_list pass:[*]_list_);
 void *tep_load_plugins_hook*(struct tep_handle pass:[*]_tep_, const char pass:[*]_suffix_,
     void (pass:[*]_load_plugin_)(struct tep_handle pass:[*]tep,
          const char pass:[*]path,
          const char pass:[*]name,
          void pass:[*]data),
     void pass:[*]_data_);
 int *tep_add_plugin_path*(struct tep_handle pass:[*]tep, char pass:[*]path,
    enum tep_plugin_load_priority prio);

Event related APIs:
 struct tep_event pass:[*]*tep_get_event*(struct tep_handle pass:[*]_tep_, int _index_);
 struct tep_event pass:[*]*tep_get_first_event*(struct tep_handle pass:[*]_tep_);
 int *tep_get_events_count*(struct tep_handle pass:[*]_tep_);
 struct tep_event pass:[*]pass:[*]*tep_list_events*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
 struct tep_event pass:[*]pass:[*]*tep_list_events_copy*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
 void
 *tep_print_event*(struct tep_handle pass:[*]_tep_, struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_,
const char pass:[*]_fmt_, _..._);
```

Event finding:
struct tep_event pass:[*]*tep_find_event*(struct tep_handle pass:[*]_tep_, int _id_);
struct tep_event pass:[*]*tep_find_event_by_name*(struct tep_handle pass:[*]_tep_, const char pass:[*]_sys_, const char pass:[*]_name_);
struct tep_event pass:[*]*tep_find_event_by_record*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_record_);
bool *tep_record_is_event*(struct tep_record pass:[*]record, struct tep_event pass:[*]event);

Parsing of event files:
int *tep_parse_header_page*(struct tep_handle pass:[*]_tep_, char pass:[*]_buf_, unsigned long _size_, int _long_size_);
enum tep_errno *tep_parse_event*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);
enum tep_errno *tep_parse_format*(struct tep_handle pass:[*]_tep_, struct tep_event pass:[*]pass:[*]_eventp_,
const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);

APIs related to fields from event's format files:
struct tep_format_field pass:[*]pass:[*]*tep_event_common_fields*(struct tep_event pass:[*]_event_);
struct tep_format_field pass:[*]pass:[*]*tep_event_fields*(struct tep_event pass:[*]_event_);
void pass:[*]*tep_get_field_raw*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int pass:[*]_len_, int _err_);
int *tep_get_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_common_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_any_field_val*(struct trace_seq pass:[*]_s_, struct
tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_read_number_field*(struct tep_format_field pass:[*]_field_, const void pass:[*]_data_, unsigned long long pass:[*]_value_);

Event fields printing:
void *tep_print_field_content*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int size, struct tep_format_field pass:[*]_field_);
void *tep_print_fields*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int _size_, struct tep_event pass:[*]_event_);
int *tep_print_num_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
int *tep_print_func_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
void *tep_record_print_fields*(struct trace_seq pass:[*]_s_,
struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_);
void *tep_record_print_selected_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_, int _select_mask_);

Event fields finding:
struct tep_format_field pass:[*]*tep_find_common_field*(struct tep_event pass:[*]_event_, const char

pass:[*]_name_);
 struct tep_format_field pass:[*]*tep_find_field*(struct tep_event_ormat pass:[*]_event_, const char pass:[*]_name_);
 struct tep_format_field pass:[*]*tep_find_any_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);

Functions resolver:
 int *tep_set_function_resolver*(struct tep_handle pass:[*]_tep_, tep_func_resolver_t pass:[*]_func_, void pass:[*]_priv_);
 void *tep_reset_function_resolver*(struct tep_handle pass:[*]_tep_);
 const char pass:[*]*tep_find_function*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
 unsigned long long *tep_find_function_address*(struct tep_handle pass:[*]_tep_,
 unsigned long long _addr_);
 int *tep_find_function_info*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_, const char pass:[**]_name_,
     unsigned long long pass:[*]_start_, unsigned long pass:[*]_size_);

Filter management:
 struct tep_event_filter pass:[*]*tep_filter_alloc*(struct tep_handle pass:[*]_tep_);
 enum tep_errno *tep_filter_add_filter_str*(struct tep_event_filter pass:[*]_filter_, const char pass:[*]_filter_str_);
 enum tep_errno *tep_filter_match*(struct tep_event_filter pass:[*]_filter_, struct tep_record pass:[*]_record_);
 int *tep_filter_strerror*(struct tep_event_filter pass:[*]_filter_, enum tep_errno _err_, char pass:[*]buf, size_t _buflen_);
 int *tep_event_filtered*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
 void *tep_filter_reset*(struct tep_event_filter pass:[*]_filter_);
 void *tep_filter_free*(struct tep_event_filter pass:[*]_filter_);
 char pass:[*]*tep_filter_make_string*(struct tep_event_filter pass:[*]_filter_, int
 _event_id_);
 int *tep_filter_remove_event*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
 int *tep_filter_copy*(struct tep_event_filter pass:[*]_dest_, struct tep_event_filter pass:[*]_source_);
 int *tep_filter_compare*(struct tep_event_filter pass:[*]_filter1_, struct tep_event_filter pass:[*]_filter2_);

Parsing various data from the records:
 int *tep_data_type*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
 int *tep_data_pid*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
 int *tep_data_preempt_count*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
 int *tep_data_flags*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);

Command and task related APIs:
 const char pass:[*]*tep_data_comm_from_pid*(struct tep_handle pass:[*]_tep_, int _pid_);
 struct cmdline pass:[*]*tep_data_pid_from_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, struct cmdline pass:[*]_next_);
 int *tep_register_comm*(struct
 tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
 int *tep_override_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
 bool *tep_is_pid_registered*(struct tep_handle pass:[*]_tep_, int _pid_);
 int *tep_cmdline_pid*(struct tep_handle pass:[*]_tep_, struct cmdline pass:[*]_cmdline_);

Endian related APIs:

int *tep_is_bigendian*(void);
unsigned long long *tep_read_number*(struct tep_handle pass:[*]_tep_, const void pass:[*]_ptr_, int _size_);
bool *tep_is_file_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_file_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
bool *tep_is_local_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_local_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);

Control library logs:
int *tep_set_loglevel*(enum tep_loglevel _level_);

KVM plugin calllbacks: (Defined by the application and complied with -rdynamic)
const char pass:[*]*tep_plugin_kvm_get_func*(struct
tep_event pass:[*]event,
struct tep_record pass:[*]record,
unsigned long long pass:[*]paddr);
void *tep_plugin_kvm_put_func*(const char pass:[*]func);

Trace sequences:
#include <trace-seq.h>
void *trace_seq_init*(struct trace_seq pass:[*]_s_);
void *trace_seq_reset*(struct trace_seq pass:[*]_s_);
void *trace_seq_destroy*(struct trace_seq pass:[*]_s_);
int *trace_seq_printf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, ...);
int *trace_seq_vprintf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, va_list _args_);
int *trace_seq_puts*(struct trace_seq pass:[*]_s_, const char pass:[*]_str_);
int *trace_seq_putc*(struct trace_seq pass:[*]_s_, unsigned char _c_);
void *trace_seq_terminate*(struct trace_seq pass:[*]_s_);
int *trace_seq_do_fprintf*(struct trace_seq pass:[*]_s_, FILE pass:[*]_fp_);
int *trace_seq_do_printf*(struct trace_seq pass:[*]_s_);

kbuffer parsing:
#include <kbuffer.h>
struct kbuffer pass:[*]*kbuffer_alloc*(enum
kbuffer_long_size _size_, enum kbuffer_endian _endian_);
struct kbuffer pass:[*]*kbuffer_dup*(struct kbuffer pass:[*]_kbuf_);
void *kbuffer_free*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_load_subbuffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuffer_);
int *kbuffer_subbuffer_size*(struct kbuffer pass:[*]_kbuf);
void pass:[*]*kbuffer_subbuffer*(struct kbuffer pass:[*]_kbuf);
int *kbuffer_refresh*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_start_of_data*(struct kbuffer pass:[*]_kbuf_);
unsigned long long *kbuffer_timestamp*(struct kbuffer pass:[*]_kbuf_);
unsigned long long *kbuffer_subbuf_timestamp*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuf_);
void pass:[*]*kbuffer_read_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_next_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_read_at_offset*(struct kbuffer pass:[*]_kbuf_, int _offset_, unsigned long
long pass:[*]_ts_);
int *kbuffer_missed_events*(struct kbuffer pass:[*]_kbuf_);

int *kbuffer_event_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_offset*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_index*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_read_buffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_buffer_, int _start_, int _len_);
--

DESCRIPTION

The libtraceevent(3) library provides APIs to access kernel tracepoint events,
located in the tracefs file system under the events directory.

ENVIRONMENT

[verse]
--
TRACEEVENT_PLUGIN_DIR
Additional plugin directory. All shared object files, located in this directory will be loaded as traceevent plugins.
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
trace-seq.h
Header file to include in order to have access to trace sequences related APIs.
Trace sequences are used
to allow a function to call several other functions
to create a string of data to use.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
trace-cmd(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE
----
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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent.txt
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libtraceevent(3)
================

NAME
----
tep_data_type, tep_data_pid,tep_data_preempt_count, tep_data_flags -
Extract common fields from a record.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *trace_flag_type* {
 _TRACE_FLAG_IRQS_OFF_,
 _TRACE_FLAG_IRQS_NOSUPPORT_,
 _TRACE_FLAG_NEED_RESCHED_,
 _TRACE_FLAG_HARDIRQ_,
 _TRACE_FLAG_SOFTIRQ_,
};

int *tep_data_type*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_pid*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_preempt_count*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_flags*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
--

DESCRIPTION

This set of functions can be used to extract common fields from a record.

The *tep_data_type()* function gets the event id from the record _rec_.
It reads the "common_type" field.

The _tep_ argument is the trace event parser
context.

The *tep_data_pid()* function gets the process id from the record _rec_.
It reads the "common_pid" field. The _tep_ argument is the trace event parser
context.

The *tep_data_preempt_count()* function gets the preemption count from the
record _rec_. It reads the "common_preempt_count" field. The _tep_ argument is
the trace event parser context.

The *tep_data_flags()* function gets the latency flags from the record _rec_.
It reads the "common_flags" field. The _tep_ argument is the trace event parser
context. Supported latency flags are:
[verse]
--
_TRACE_FLAG_IRQS_OFF_, Interrupts are disabled.
_TRACE_FLAG_IRQS_NOSUPPORT_, Reading IRQ flag is not supported by the architecture.
_TRACE_FLAG_NEED_RESCHED_, Task needs rescheduling.
_TRACE_FLAG_HARDIRQ_, Hard IRQ is running.
_TRACE_FLAG_SOFTIRQ_, Soft IRQ is running.
--

RETURN VALUE

The *tep_data_type()* function returns an integer, representing the event id.

The
tep_data_pid() function returns an integer, representing the process id

The *tep_data_preempt_count()* function returns an integer, representing the
preemption count.

The *tep_data_flags()* function returns an integer, representing the latency
flags. Look at the _trace_flag_type_ enum for supported flags.

All these functions in case of an error return a negative integer.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void process_record(struct tep_record *record)
{

```
 int data;

 data = tep_data_type(tep, record);
 if (data >= 0) {
  /* Got the ID of the event */
 }

 data = tep_data_pid(tep, record);
 if (data >= 0) {
  /* Got the process ID */
 }

 data = tep_data_preempt_count(tep, record);
 if (data >= 0) {
  /* Got the preemption count */
 }

 data = tep_data_flags(tep, record);
 if (data >= 0) {
  /* Got the latency flags */
 }
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access
 to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
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```

Report bugs to <linux-trace-devel@vger.kernel.org>

LICENSE
---
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RESOURCES
---
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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libtraceevent(3)
==========

NAME
---
tep_parse_event, tep_parse_format - Parse the event format information

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum tep_errno *tep_parse_event*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);
enum tep_errno *tep_parse_format*(struct tep_handle pass:[*]_tep_, struct tep_event pass:[*]pass:[*]_eventp_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);
--

DESCRIPTION

The *tep_parse_event()* function parses the event format and creates an event
structure to quickly parse raw data for a given event. The _tep_ argument is
the trace event parser context. The created event structure is stored in the
tep context. The _buf_ argument is a buffer with _size_, where the event
format data is. The event format data can be taken from
tracefs/events/.../.../format files. The
 sys argument is the system of
the event.

The *tep_parse_format()* function does the same as *tep_parse_event()*. The only
difference is in the extra _eventp_ argument, where the newly created event
structure is returned.

RETURN VALUE

Both *tep_parse_event()* and *tep_parse_format()* functions return 0 on success,
or TEP_ERRNO__... in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char *buf;
int size;
struct tep_event *event = NULL;
buf = read_file("/sys/kernel/tracing/events/ftrace/print/format", &size);
if (tep_parse_event(tep, buf, size, "ftrace") != 0) {
 /* Failed to parse the ftrace print format */
}

if (tep_parse_format(tep, &event, buf, size, "ftrace") != 0) {
 /* Failed to parse the ftrace print format */
}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that
 uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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RESOURCES
---
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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libtraceevent(3)
==========

NAME
---
tep_filter_alloc, tep_filter_free, tep_filter_reset, tep_filter_make_string,
tep_filter_copy, tep_filter_compare, tep_filter_match, tep_event_filtered,
tep_filter_remove_event, tep_filter_strerror, tep_filter_add_filter_str -
Event filter related APIs.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_event_filter pass:[*]*tep_filter_alloc*(struct tep_handle pass:[*]_tep_);
void *tep_filter_free*(struct tep_event_filter pass:[*]_filter_);
void *tep_filter_reset*(struct tep_event_filter pass:[*]_filter_);
enum tep_errno *tep_filter_add_filter_str*(struct tep_event_filter pass:[*]_filter_, const char pass:[*]_filter_str_);
int *tep_event_filtered*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_remove_event*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
enum tep_errno *tep_filter_match*(struct tep_event_filter pass:[*]_filter_,
 struct tep_record pass:[*]_record_);
int *tep_filter_copy*(struct tep_event_filter pass:[*]_dest_, struct tep_event_filter pass:[*]_source_);
int *tep_filter_compare*(struct tep_event_filter pass:[*]_filter1_, struct tep_event_filter pass:[*]_filter2_);
char pass:[*]*tep_filter_make_string*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_strerror*(struct tep_event_filter pass:[*]_filter_, enum tep_errno _err_, char pass:[*]buf, size_t
buflen);
--

DESCRIPTION

Filters can be attached to traced events. They can be used to filter out various events when outputting them. Each event can be filtered based on its parameters, described in the event's format file. This set of functions can be used to create, delete, modify and attach event filters.

The *tep_filter_alloc()* function creates a new event filter. The _tep_ argument is the trace event parser context.

The *tep_filter_free()* function frees an event filter and all resources that it had
used.

The *tep_filter_reset()* function removes all rules from an event filter and resets it.

The *tep_filter_add_filter_str()* function adds a new rule to the _filter_. The _filter_str_ argument is the filter string, that contains the rule.

The *tep_event_filtered()* function checks if the event with _event_id_ has _filter_.

The *tep_filter_remove_event()* function removes a _filter_ for an event with _event_id_.

The *tep_filter_match()* function tests if a _record_ matches given _filter_.

The *tep_filter_copy()* function copies a _source_ filter into a _dest_ filter.

The *tep_filter_compare()* function compares two filers - _filter1_ and _filter2_.

The *tep_filter_make_string()* function constructs a string, displaying the _filter_ contents for given _event_id_.

The *tep_filter_strerror()* function copies the _filter_ error buffer into the given _buf_ with the size _buflen_. If the error buffer is empty, in the _buf_ is copied a string, describing the error _err_.

RETURN
VALUE

The *tep_filter_alloc()* function returns a pointer to the newly created event filter, or NULL in case of an error.

The *tep_filter_add_filter_str()* function returns 0 if the rule was successfully added or a negative error code. Use *tep_filter_strerror()* to see

actual error message in case of an error.

The *tep_event_filtered()* function returns 1 if the filter is found for given
event, or 0 otherwise.

The *tep_filter_remove_event()* function returns 1 if the vent was removed, or
0 if the event was not found.

The *tep_filter_match()* function returns _tep_errno_, according to the result:
[verse]
--
_pass:[TEP_ERRNO__FILTER_MATCH]_ - filter found for event, the record matches.
_pass:[TEP_ERRNO__FILTER_MISS]_ - filter found for event, the record does not match.
_pass:[TEP_ERRNO__FILTER_NOT_FOUND]_ - no filter found for record's event.
_pass:[TEP_ERRNO__NO_FILTER]_ - no rules in the filter.
--
or any other _tep_errno_, if an error occurred during the test.

The
 tep_filter_copy() function returns 0 on success or -1 if not all rules
were copied.

The *tep_filter_compare()* function returns 1 if the two filters hold the same
content, or 0 if they do not.

The *tep_filter_make_string()* function returns a string, which must be freed
with free(), or NULL in case of an error.

The *tep_filter_strerror()* function returns 0 if message was filled
successfully, or -1 in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char errstr[200];
int ret;

struct tep_event_filter *filter = tep_filter_alloc(tep);
struct tep_event_filter *filter1 = tep_filter_alloc(tep);
ret = tep_filter_add_filter_str(filter, "sched/sched_wakeup:target_cpu==1");
if(ret < 0) {
 tep_filter_strerror(filter, ret, errstr, sizeof(errstr));
 /* Failed to add a new rule to the filter, the error string is in errstr */

```
}
if (tep_filter_copy(filter1, filter) != 0) {
 /* Failed to copy filter in filter1 */
}
...
if
 (tep_filter_compare(filter, filter1) != 1) {
 /* Both filters are different */
}
...
void process_record(struct tep_handle *tep, struct tep_record *record)
{
 struct tep_event *event;
 char *fstring;

 event = tep_find_event_by_record(tep, record);

 if (tep_event_filtered(filter, event->id) == 1) {
  /* The event has filter */
  fstring = tep_filter_make_string(filter, event->id);
  if (fstring != NULL) {
   /* The filter for the event is in fstring */
   free(fstring);
  }
 }

 switch (tep_filter_match(filter, record)) {
 case TEP_ERRNO__FILTER_MATCH:
  /* The filter matches the record */
  break;
 case TEP_ERRNO__FILTER_MISS:
  /* The filter does not match the record */
  break;
 case TEP_ERRNO__FILTER_NOT_FOUND:
  /* No filter found for record's event */
  break;
 case TEP_ERRNO__NO_FILTER:
  /* There are no rules in the filter */
  break
 default:
  /* An error occurred during the test */
  break;
 }

 if (tep_filter_remove_event(filter, event->id) == 1) {
  /* The event was removed
 from the filter */
 }
```

```
}

...
tep_filter_reset(filter);
...
tep_filter_free(filter);
tep_filter_free(filter1);
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
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[verse]
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*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
```

==========

NAME
----
tep_read_number - Reads a number from raw data.

SYNOPSIS

[verse]
--
#include <event-parse.h>

unsigned long long *tep_read_number*(struct tep_handle pass:[*]_tep_, const void pass:[*]_ptr_, int _size_);
--

DESCRIPTION

The *tep_read_number()* function reads an integer from raw data, taking into
account the endianness of the raw data and the current host. The _tep_ argument
is the trace event parser context. The _ptr_ is a pointer to the raw data, where
the integer is, and the _size_ is the size of the integer.

RETURN VALUE

The *tep_read_number()* function returns the integer in the byte order of
the current host. In case of an error, 0 is returned.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void process_record(struct tep_record *record)
{
 int offset = 24;
 int data = tep_read_number(tep,
 record->data + offset, 4);

 /* Read the 4 bytes at the offset 24 of data as an integer */
}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
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libtraceevent(3)
================

NAME
----
tep_register_event_handler, tep_unregister_event_handler - Register /
unregisters a callback function to parse an event information.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_reg_handler* {
 _TEP_REGISTER_SUCCESS_,
 _TEP_REGISTER_SUCCESS_OVERWRITE_,
};

int *tep_register_event_handler*(struct tep_handle pass:[*]_tep_, int _id_, const char pass:[*]_sys_name_, const char pass:[*]_event_name_, tep_event_handler_func _func_, void pass:[*]_context_);
int *tep_unregister_event_handler*(struct tep_handle pass:[*]tep, int id, const char pass:[*]sys_name, const char pass:[*]event_name, tep_event_handler_func func, void pass:[*]_context_);

typedef int (*pass:[*]tep_event_handler_func*)(struct trace_seq pass:[*]s, struct tep_record pass:[*]record, struct tep_event pass:[*]event, void pass:[*]context);
--

DESCRIPTION

The *tep_register_event_handler()*
 function registers a handler function,
which is going to be called to parse the information for a given event.
The _tep_ argument is the trace event parser context. The _id_ argument is
the id of the event. The _sys_name_ argument is the name of the system,
the event belongs to. The _event_name_ argument is the name of the event.
If _id_ is >= 0, it is used to find the event, otherwise _sys_name_ and
_event_name_ are used. The _func_ is a pointer to the function, which is going
to be called to parse the event information. The _context_ argument is a pointer
to the context data, which will be passed to the _func_. If a handler function
for the same event is already registered, it will be overridden with the new
one. This mechanism allows a developer to override the parsing of a given event.
If for some reason the default print format is not sufficient, the developer
can register a function for an event to be used to parse the data instead.

The *tep_unregister_event_handler()* function
 unregisters the handler function,
previously registered with *tep_register_event_handler()*. The _tep_ argument
is the trace event parser context. The _id_, _sys_name_, _event_name_, _func_,
and _context_ are the same arguments, as when the callback function _func_ was
registered.

The _tep_event_handler_func_ is the type of the custom event handler
function. The _s_ argument is the trace sequence, it can be used to create a
custom string, describing the event. A _record_ to get the event from is passed
as input parameter and also the _event_ - the handle to the record's event. The
context is custom context, set when the custom event handler is registered.

RETURN VALUE

The *tep_register_event_handler()* function returns _TEP_REGISTER_SUCCESS_

if the new handler is registered successfully or
_TEP_REGISTER_SUCCESS_OVERWRITE_ if an existing handler is overwritten.
If there is not enough memory to complete the registration,
TEP_ERRNO__MEM_ALLOC_FAILED is returned.

The
 tep_unregister_event_handler() function returns 0 if _func_ was removed
successful or, -1 if the event was not found.

The _tep_event_handler_func_ should return -1 in case of an error,
or 0 otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
int timer_expire_handler(struct trace_seq *s, struct tep_record *record,
    struct tep_event *event, void *context)
{
 trace_seq_printf(s, "hrtimer=");

 if (tep_print_num_field(s, "0x%llx", event, "timer", record, 0) == -1)
  tep_print_num_field(s, "0x%llx", event, "hrtimer", record, 1);

 trace_seq_printf(s, " now=");

 tep_print_num_field(s, "%llu", event, "now", record, 1);

 tep_print_func_field(s, " function=%s", event, "function", record, 0);

 return 0;
}
...
 int ret;

 ret = tep_register_event_handler(tep, -1, "timer", "hrtimer_expire_entry",
      timer_expire_handler, NULL);
 if (ret < 0) {
  char buf[32];

  tep_strerror(tep, ret, buf, 32)
  printf("Failed

```
 to register handler for hrtimer_expire_entry: %s\n", buf);
 } else {
  switch (ret) {
  case TEP_REGISTER_SUCCESS:
   printf ("Registered handler for hrtimer_expire_entry\n");
   break;
  case TEP_REGISTER_SUCCESS_OVERWRITE:
   printf ("Overwrote handler for hrtimer_expire_entry\n");
   break;
  }
 }
...
 ret = tep_unregister_event_handler(tep, -1, "timer", "hrtimer_expire_entry",
       timer_expire_handler, NULL);
 if ( ret )
  printf ("Failed to unregister handler for hrtimer_expire_entry\n");
```

--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences
 related APIs. Trace sequences are used to allow a function to call
 several other functions to create a string of data to use.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
*Steven
 Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
==========

NAME
---
tep_strerror - Returns a string describing regular errno and tep error number.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_strerror*(struct tep_handle pass:[*]_tep_, enum tep_errno _errnum_, char pass:[*]_buf_, size_t _buflen_);

--
DESCRIPTION

The *tep_strerror()* function converts tep error number into a human
readable string.
The _tep_ argument is trace event parser context. The _errnum_ is a regular
errno, defined in errno.h, or a tep error number. The string, describing this
error number is copied in the _buf_ argument. The _buflen_ argument is
the size of the _buf_.

It as a thread safe wrapper around strerror_r(). The library function has two
different behaviors - POSIX and GNU specific. The *tep_strerror()* API always
behaves as the POSIX version - the error string is copied in the user supplied
buffer.

RETURN VALUE

The
 tep_strerror() function returns 0, if a valid _errnum_ is passed and the
string is copied into _buf_. If _errnum_ is not a valid error number,

-1 is returned and _buf_ is not modified.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char buf[32];
char *pool = calloc(1, 128);
if (tep == NULL) {
 tep_strerror(tep, TEP_ERRNO__MEM_ALLOC_FAILED, buf, 32);
 printf ("The pool is not initialized, %s", buf);
}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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libtraceevent(3)
==========

NAME
----
tep_get_long_size, tep_set_long_size - Get / set the size of a long integer on
the machine, where the trace is generated, in bytes

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_long_size*(strucqt tep_handle pass:[*]_tep_);
void *tep_set_long_size*(struct tep_handle pass:[*]_tep_, int _long_size_);
--

DESCRIPTION

The *tep_get_long_size()* function returns the size of a long integer on the machine,
where the trace is generated. The _tep_ argument is trace event parser context.

The *tep_set_long_size()* function sets the size of a long integer on the machine,
where the trace is generated. The _tep_ argument is trace event parser context.
The _long_size_ is the size of a long integer, in bytes.

RETURN VALUE

The *tep_get_long_size()* function returns the size of a long integer on the machine,
where the trace is generated, in
bytes.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
tep_set_long_size(tep, 4);
...
int long_size = tep_get_long_size(tep);
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
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Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
==========

NAME
---
tep_event_common_fields, tep_event_fields - Get a list of fields for an event.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_format_field pass:[*]pass:[*]*tep_event_common_fields*(struct tep_event pass:[*]_event_);
struct tep_format_field pass:[*]pass:[*]*tep_event_fields*(struct tep_event pass:[*]_event_);
--

DESCRIPTION

The *tep_event_common_fields()* function returns an array of pointers to common
fields for the _event_. The array is allocated in the function and must be freed
by free(). The last element of the array is NULL.

The *tep_event_fields()* function returns an array of pointers to event specific
fields for the _event_. The array is allocated in the function and must be freed
by free(). The last element of the array is NULL.

RETURN VALUE

Both *tep_event_common_fields()* and *tep_event_fields()* functions return
an
 array of pointers to tep_format_field structures in case of success, or
NULL in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i;
struct tep_format_field **fields;
struct tep_event *event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
if (event != NULL) {
 fields = tep_event_common_fields(event);
 if (fields != NULL) {
  i = 0;
  while (fields[i]) {
   /*
     walk through the list of the common fields
     of the kvm_exit event
   */
   i++;
  }
  free(fields);
 }
 fields = tep_event_fields(event);
 if (fields != NULL) {
  i = 0;
  while (fields[i]) {
   /*
     walk through the list of the event specific
     fields of the kvm_exit event
   */
   i++;
  }
  free(fields);
 }
}
...
--

FILES

[verse]

--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3),
 trace-cmd(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
================

NAME
----
tep_get_event, tep_get_first_event, tep_get_events_count - Access events.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_event pass:[*]*tep_get_event*(struct tep_handle pass:[*]_tep_, int _index_);
struct tep_event pass:[*]*tep_get_first_event*(struct tep_handle pass:[*]_tep_);
int *tep_get_events_count*(struct tep_handle pass:[*]_tep_);
--

DESCRIPTION

The *tep_get_event()* function returns a pointer to event at the given _index_.
The _tep_ argument is trace event parser context, the _index_ is the index of
the requested event.

The *tep_get_first_event()* function returns a pointer to the first event.
As events are stored in an array, this function returns the pointer to the
beginning of the array. The _tep_ argument is trace event parser context.

The *tep_get_events_count()* function returns the number of the events
in the array. The _tep_
argument is trace event parser context.

RETURN VALUE

The *tep_get_event()* returns a pointer to the event located at _index_.
NULL is returned in case of error, in case there are no events or _index_ is
out of range.

The *tep_get_first_event()* returns a pointer to the first event. NULL is
returned in case of error, or in case there are no events.

The *tep_get_events_count()* returns the number of the events. 0 is
returned in case of error, or in case there are no events.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i,count = tep_get_events_count(tep);
struct tep_event *event, *events = tep_get_first_event(tep);

if (events == NULL) {
 /* There are no events */
} else {
 for (i = 0; i < count; i++) {
  event = (events+i);
  /* process events[i] */

```
 }

 /* Get the last event */
 event = tep_get_event(tep, count-1);
}
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access
 to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
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libtraceevent(3)
================
```

NAME
----
tep_parse_saved_cmdlines, tep_parse_printk_formats, tep_parse_kallsyms
- Parsing functions to load mappings

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_parse_saved_cmdlines*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_printk_formats*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_kallsyms*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
--

DESCRIPTION
----
tep_parse_saved_cmdlines() is a helper function to parse content in the tracefs
file system of the "saved_cmdlines" file (stored in a string buffer passed in by _buf_)
and loads the mapping of the process IDs (pid) to the comm names in the
tep handler. The events store the pid and this is used to be able to show the
process names associated to those process ids. It parses the string _buf_ that
holds the content of saved_cmdlines
and ends with a nul character ('\0').

tep_parse_printk_formats() is a helper function to parse content in the tracefs
file system of the "printk_formats" file (stored in a string buffer passed in by _buf_)
and loads the mapping of addresses of strings that may be referenced by events.
Events only store the address of constant strings in the kernel, and the mapping
of their address to the string is exported to user space in the printk_formats
file. It parses the string _buf_ that holds the content of printk_formats and
ends with a nul character ('\0').

tep_parse_kallsyms() is a helper function to parse the Linux kernel /proc/kallsyms format
(stored in a string buffer passed in by _buf_) and load the functions into the
tep handler such that function IP addresses can be mapped to their name when
parsing events with %pS in the print format field. It parses the string _buf_ that
holds the content of /proc/kallsyms and ends with a nul character ('\0').

RETURN VALUE

The
tep_parse_saved_cmdlines() function returns 0 in case of success, or -1
in case of an error.

The *tep_parse_printk_formats*() function returns 0 in case of success, or -1
in case of an error.

The *tep_parse_kallsyms*() function returns 0 in case of success, or -1
in case of an error.

EXAMPLE

[source,c]
--
...
```
#include <event-parse.h>
#include <tracefs.h>
#include <stdlib.h>

int load_cmdlines(struct tep_handle *tep)
{
	char *buf = NULL;
	int r;

	buf = tracefs_instance_file_read(NULL, "saved_cmdlines", NULL);
	if (!buf)
		return -1;
	r = tep_parse_saved_cmdlines(tep, buf);
	free(buf);
	return r;
}

int load_print_strings(struct tep_handle *tep)
{
	char *buf = NULL;
	int r;

	buf = tracefs_instance_file_read(NULL, "printk_formats", NULL);
	if (!buf)
		return -1;
	r = tep_parse_printk_formats(tep, buf);
	free(buf);
	return r;
}

int load_kallsyms(struct
 tep_handle *tep)
{
	char *line = NULL;
	char *buf = NULL;
	size_t sz = 0;
	FILE *fp;
	int len = 0;
	int r;
```

```
	fp = fopen("/proc/kallsyms", "r");
	while ((r = getline(&line, &sz, fp)) >= 0) {
		buf = realloc(buf, len + r + 1);
		memcpy(buf + len, line, r);
		len += r;
	}
	free(line);
	fclose(fp);
	if (!buf)
		return -1;
	buf[len] = 0;

	r = tep_parse_kallsyms(tep, buf);
	free(buf);
	return r;
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1), *tep_register_comm*(3), *tep_register_function*(3),
*tep_register_print_string*(3)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir
 Stoyanov* <tz.stoyanov@gmail.com>, coauthor of *libtraceevent*.
--
REPORTING BUGS
--------------
Report bugs to  <linux-trace-devel@vger.kernel.org>

LICENSE
```

---
libtraceevent is Free Software licensed under the GNU LGPL 2.1

RESOURCES
---
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

Found in path(s):
* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-parse-files.txt
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libtraceevent(3)
==========

NAME
---
tep_is_file_bigendian, tep_set_file_bigendian - Get / set the endianness of the
raw data being accessed by the tep handler.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_endian* {
 TEP_LITTLE_ENDIAN = 0,
 TEP_BIG_ENDIAN
};

bool *tep_is_file_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_file_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);

--
DESCRIPTION

The *tep_is_file_bigendian()* function gets the endianness of the raw data,
being accessed by the tep handler. The _tep_ argument is trace event parser
context.

The *tep_set_file_bigendian()* function sets the endianness of raw data being
accessed by the tep handler. The _tep_ argument is trace event parser context.
[verse]
--
The _endian_ argument is the endianness:
 _TEP_LITTLE_ENDIAN_ - the raw data is in little endian format,
 _TEP_BIG_ENDIAN_ - the

raw data is in big endian format.
--
RETURN VALUE

The *tep_is_file_bigendian()* function returns true if the data is in bigendian
format, false otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
tep_set_file_bigendian(tep, TEP_LITTLE_ENDIAN);
...
if (tep_is_file_bigendian(tep)) {
 /* The raw data is in big endian */
} else {
 /* The raw data is in little endian */
}
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

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LICENSE
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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-file_endian.txt
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libtraceevent(3)
================

NAME
----
tep_is_bigendian, tep_is_local_bigendian, tep_set_local_bigendian - Get / set
the endianness of the local machine.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_endian* {
 TEP_LITTLE_ENDIAN = 0,
 TEP_BIG_ENDIAN
};

int *tep_is_bigendian*(void);
bool *tep_is_local_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_local_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
--

DESCRIPTION

The *tep_is_bigendian()* gets the endianness of the machine, executing
the function.

The *tep_is_local_bigendian()* function gets the endianness of the local
machine, saved in the _tep_ handler. The _tep_ argument is the trace event
parser context. This API is a bit faster than *tep_is_bigendian()*, as it
returns cached endianness of the local machine instead of checking it each time.

The *tep_set_local_bigendian()* function sets
the endianness of the local
machine in the _tep_ handler. The _tep_ argument is trace event parser context.
The _endian_ argument is the endianness:
[verse]
--
_TEP_LITTLE_ENDIAN_ - the machine is little endian,
_TEP_BIG_ENDIAN_ - the machine is big endian.
--

RETURN VALUE

The *tep_is_bigendian()* function returns non zero if the endianness of the
machine, executing the code, is big endian and zero otherwise.

The *tep_is_local_bigendian()* function returns true, if the endianness of the
local machine, saved in the _tep_ handler, is big endian, or false otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
if (tep_is_bigendian())
 tep_set_local_bigendian(tep, TEP_BIG_ENDIAN);
else
 tep_set_local_bigendian(tep, TEP_LITTLE_ENDIAN);
...
if (tep_is_local_bigendian(tep))
 printf("This machine you are running on is bigendian\n");
else
 printf("This machine you are running on is little endian\n");

--

FILES

[verse]
--
event-parse.h
Header
file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.

--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

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LICENSE
----
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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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* /libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-host_endian.txt

1.280 storcli 007.2508.0000.0000-1

1.280.1 Available under license :

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%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efi%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiEntering ShowSystemCp::getSLITVersion = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiEntering ShowSystemCp::getSLIR3Version = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efi
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* /007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efi

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/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efi Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiEntering ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiExiting ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiEntering ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiExiting ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiITUtils::slGetPdInfo supportLinkSpeedPhysical = %d pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiITUtils::getSecureBootDetails - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiITUtils::isPlatformSecSupported - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efi /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiPdDataMfi ::PdInfoDetail :: pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/Debug/storcli.efiDrive deviceID=%d (PdDataMfi::getSlotNumber) value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/storcli.efi%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/storcli.efi%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/storcli.efiEntering ShowSystemCp::getSLITVersion = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/storcli.efiEntering ShowSystemCp::getSLIR3Version = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/storcli.efi (c)Copyright %s, Broadcom Inc. All Rights Reserved. /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/storcli.efi Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/storcli.efiEntering ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/storcli.efiExiting ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/EFI/storcli.efiEntering ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-

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pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Linux/storcli64-zip/storcli64Drive deviceID=%d (PdDataMfi::getSlotNumber) value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Linux/storcli64-zip/storcli64%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Linux/storcli64-zip/storcli64%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Linux/storcli64-zip/storcli64%s: Startslot 0x%x, phybits 0x%x, EnclosureLogicalID %I64d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exe Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exe Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeEntering SystemGetCp::processEventsLogs/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeExiting SystemGetCp::processEventsLogs/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeEntering ShowSystemCp::getSLITVersion = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeEntering ShowSystemCp::getSLIR3Version = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exe /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exe (c)Copyright %s, Broadcom Inc. All Rights Reserved. /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeITUtils::slGetPdInfo supportLinkSpeedPhysical = %d pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeITUtils::getSecureBootDetails - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeITUtils::isPlatformSecSupported - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeEntering ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeExiting ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeEntering ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeExiting

ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exeDrive deviceID=%d (PdDataMfi::getSlotNumber) value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exe%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exe%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/ARM/Windows/StorCLI64.exe%s: Startslot 0x%x, phybits 0x%x, EnclosureLogicalID %I64d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efiEntering ShowSystemCp::getSLITVersion = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efiEntering ShowSystemCp::getSLIR3Version = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efi Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efi /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efi (c)Copyright %s, Broadcom Inc. All Rights Reserved.
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value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efi%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efi%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efiGetSlotStatus: Memory alloc

failed
/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efiGetSlotStatus: physDiskNum = %d, slotStatus = 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/Debug/storcli.efiLocatePD: Calling GetSlotStatus for deviceId = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiEntering ShowSystemCp::getSLITVersion = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiEntering ShowSystemCp::getSLIR3Version = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efi Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efi
/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efi
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/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiEntering ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiExiting ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiEntering ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiExiting ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiITUtils::slGetPdInfo supportLinkSpeedPhysical = %d pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiITUtils::getSecureBootDetails - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiITUtils::isPlatformSecSupported - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiPdDataMfi ::PdInfoDetail :: pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiDrive deviceID=%d (PdDataMfi::getSlotNumber) value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efi%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efi%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiGetSlotStatus: Memory alloc failed /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiGetSlotStatus: physDiskNum = %d, slotStatus = 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/EFI/storcli.efiLocatePD: Calling GetSlotStatus for deviceId

= %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64 (c)Copyright %s, Broadcom Inc. All Rights Reserved. /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64Entering ShowSystemCp::getSLITVersion = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64Entering ShowSystemCp::getSLIR3Version = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64 /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64Entering ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64Exiting ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64Entering ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64Exiting ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64ITUtils::slGetPdInfo supportLinkSpeedPhysical = %d pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64ITUtils::getSecureBootDetails - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64ITUtils::isPlatformSecSupported - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64 Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64PdDataMfi ::PdInfoDetail :: pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64Drive deviceID=%d (PdDataMfi::getSlotNumber) value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/FreeBSD/storcli64-tar/storcli64%s: Startslot 0x%x, phybits 0x%x, EnclosureLogicalID %I64d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64

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%s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64 /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64Entering ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64Exiting ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64Entering ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64Exiting ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64ITUtils::slGetPdInfo supportLinkSpeedPhysical = %d pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64ITUtils::getSecureBootDetails
- getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64ITUtils::isPlatformSecSupported - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64PdDataMfi ::PdInfoDetail :: pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64Drive deviceID=%d (PdDataMfi::getSlotNumber) value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64%s:
leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/BigEndian/storcli64-zip/storcli64%s: Startslot 0x%x, phybits 0x%x, EnclosureLogicalID %I64d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64Entering ShowSystemCp::getSLITVersion = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64Entering
ShowSystemCp::getSLIR3Version = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64 /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64 Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64Entering ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64Exiting

ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64Entering
ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64Exiting ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64ITUtils::slGetPdInfo supportLinkSpeedPhysical = %d pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64ITUtils::getSecureBootDetails -
getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64ITUtils::isPlatformSecSupported - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64
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/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64PdDataMfi ::PdInfoDetail :: pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64Drive
deviceID=%d (PdDataMfi::getSlotNumber) value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux-PPC/LittleEndian/storcli64-zip/storcli64%s: Startslot 0x%x, phybits 0x%x, EnclosureLogicalID %I64d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux/splitpackage.sh#!/bin/sh /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64
/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64Entering
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ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-

zip/storcli64ITUtils::getSecureBootDetails - getSlCtrlInfo
retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64ITUtils::isPlatformSecSupported - getSlCtrlInfo
retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64ITUtils::slGetPdInfo supportLinkSpeedPhysical = %d pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64
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/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64Drive deviceID=%d (PdDataMfi::getSlotNumber) value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64PdDataMfi ::PdInfoDetail :: pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Linux_Lite/storcli64-zip/storcli64%s: Startslot 0x%x, phybits 0x%x, EnclosureLogicalID %I64d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exe Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exe Copyright (c) 2017 AVAGO Corporation. All Rights Reserved./opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeEntering SystemGetCp::processEventsLogs/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeExiting SystemGetCp::processEventsLogs/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeEntering ShowSystemCp::getSLITVersion = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeEntering ShowSystemCp::getSLIR3Version = %s/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exe /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exe (c)Copyright %s, Broadcom Inc. All Rights Reserved.
/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeEntering ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeExiting ITUtils::getSlCtrlInfo/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeEntering ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeExiting ITUtils::getSlCtrlProp/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-

zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeITUtils::getSecureBootDetails - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeITUtils::isPlatformSecSupported - getSlCtrlInfo retCode:%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeITUtils::slGetPdInfo supportLinkSpeedPhysical = %d pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exePdDataMfi ::PdInfoDetail :: pdSupportsLinkSpeedPhysical = %d linkSpeedPhysical = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeDrive deviceID=%d (PdDataMfi::getSlotNumber) value=%d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exe%s: leastSlotOffset = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exe%s: StartSlot 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exe%s: Startslot 0x%x, phybits 0x%x, EnclosureLogicalID %I64d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeGetSlotStatus: Memory alloc failed /opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeGetSlotStatus: physDiskNum = %d, slotStatus = 0x%x/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeLocatePD: Calling GetSlotStatus for deviceId = %d/opt/cola/permits/2187759126_1765903996.737604/0/007-3405-0000-0000-mr7-34-storcli-zip/storcli_rel/unified-storcli-all-os-zip/Unified_storcli_all_os/Windows/storcli64.exeMPI2_EVENT_DATA_SAS_ENCL_DEV_STATUS_CHANGE: Startslot %d, phybits %d, EnclosureLogicalID %I64d

Found in path(s):
*

1.281 dpdk-kmods 1.0

1.281.1 Available under license :

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Found in path(s):
* /dpdk-kmods-1-0-zip/dpdk-kmods-main/windows/netuio/netuio.inf
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* /dpdk-kmods-1-0-zip/dpdk-kmods-main/linux/igb_uio/igb_uio.c

1.282 python-pexpect 4.7.0

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1.283 dpdk 22.11.0

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Version 2.1, February 1999

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1.284 python-pyyaml 5.4.1

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1.285 libdbi-perl 1.643

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1.286 pam-radius 3.0.0

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1.290 kbd 2.4.0

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1.291 kerberos 1.17

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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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
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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
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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,
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.293 python 3.7.4

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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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
2.1.2	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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the version number 2.1.]

Preamble

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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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1.296 libjitterentropy 3.4.1

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1.298 expat 2.6.2

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1.299 libyaml 0.2.5

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From dso/aix/dso.c:

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

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

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From
strings/apr_snprintf.c:

*
* cvt - IEEE floating point formatting routines.
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*

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Apache Portable Runtime

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Portions of this software were developed at the National Center
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This software contains code derived from the RSA Data Security
Inc. MD5 Message-Digest Algorithm.

This software contains code derived from UNIX V7, Copyright(C)
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1.302 tomcat-connectors 1.2.40

1.302.1 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>

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*
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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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```
PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  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
```

1.303 libunwind 1.8.1

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1.304 libutempter 1.1.6-alt2

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it

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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
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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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1.305 vim 9.1.0114

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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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uganda.txt   For Vim version 9.1. Last change: 2022 Mar 02

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below or visit the ICCF web site, available at these URLs:

 https://iccf-holland.org/
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You can also sponsor the development of Vim. Vim sponsors can vote for
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- If you want to support further Vim development consider becoming a |sponsor|. The money goes to Uganda anyway.

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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
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If you make a donation to Kuwasha you will receive a tax
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Source: https://github.com/linux-rdma/rdma-core

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1.308 shared-mime-info 2.1

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```

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```
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==========

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1.314 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 */
```

1.316 libaio 0.3.112

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1.318 kerberos 1.17.2

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c

lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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 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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1.321 python 3.9.9

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

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

software.

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

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

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1.322 pcre 8.44

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1.323 elfutils 0.183

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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  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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Version 3.1, 31 March 2009

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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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/* 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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1.327 libffi 3.3

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1.328 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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gz/tipcutils/demos/benchmark/common_tipc.h/* ----------
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-
gz/tipcutils/demos/benchmark/server_tipc.c/* ----------
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-
gz/tipcutils/demos/c_api_demo/tipc_c_api_client.c/* ----------
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-
gz/tipcutils/demos/c_api_demo/tipc_c_api_server.c/* ----------
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-
gz/tipcutils/demos/c_api_demo/tipc_c_api_top_subscr.c/* ----------

---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/c_api_demo/tipcc.c/*

/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/c_api_demo/tipcc.h/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/connection_demo/client_tipc.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/connection_demo/server_tipc.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/hello_world/client_tipc.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/hello_world/server_tipc.c/*

/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/inventory_sim/inventory_sim.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/multicast_demo/client_tipc.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/multicast_demo/server_tipc.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/stream_demo/client_tipc.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/stream_demo/server_tipc.c/*

/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/topology_subscr_demo/client_tipc.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/demos/topology_subscr_demo/server_tipc.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/multicast_blast/group_cast.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/multicast_blast/mcast_tipc.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/multicast_blast/tipcc.c/*

/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/multicast_blast/tipcc.h/* ---
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/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/ptts/tipc_ts_adapt.h/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/ptts/tipc_ts_client.c/* ---
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/ptts/tipc_ts_client_linux.c/*

/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/ptts/tipc_ts_common.c/*

/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/ptts/tipc_ts_server.c/* -------
----
/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/ptts/tipc_ts_server_linux.c/*

/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/tipc-pipe/tipc-pipe.c/* ------
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/opt/cola/permits/2637593463_1758890930.8754926/0/tipcutils-2-2-0-1-tar-gz/tipcutils/tipclog/tipc.h/*

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/* ----------
*
* client_tipc.c
*
* Short description: TIPC benchmark demo (client side)
*
* ----------
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1.331 ntp 4.2.8p17

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****

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29. [31]Frank Kardel [32]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
30. [33]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
31. [34]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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33. [36]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
34. [37]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
35. [38]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
36. [39]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
37. [40]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
38. [41]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
39. [42]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
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42. [45]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
43. [46]Derek Mulcahy <derek@toybox.demon.co.uk> and [47]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
44. [48]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
45. [49]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
46. [50]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
47. [51]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
48. [52]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
49. [53]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
50. [54]Ray Schnitzler <schnitz@unipress.com> Unixware1 port

51. [55]Michael Shields <shields@tembel.org> USNO clock driver
52. [56]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
53. [57]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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58. [62]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
59. [63]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
60. [64]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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

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

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

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a) Accompany
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b) Use a suitable shared library mechanism for linking with the
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It may happen that this requirement contradicts the license
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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1.337 amd-spi 1.0

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1.340 apache-http-server 2.4.46

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* httpd@ncsa.uiuc.edu
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   Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
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This file is generated from xml source: DO NOT EDIT
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/>
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</script>

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    d.write(' <\/div>');
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    (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);
//--><!]]></script>
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1.341 python-requests 2.26.0

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1.342 tenacity 7.0.0

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1.345 python 2.7.18

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

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

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

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

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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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1.355 python-pip 21.2.4

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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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

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

2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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1.356 docker 20.10.17

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/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdDOWNGRD DSA-SHA1DataLossDatetimeDecemberDetail: Details:DevmajorDevminorDiamond;DiffCopyDigest: Disable:DownTee;DuployanDurationECC-GOSTElement;EndpointEntries:EnvelopeEpsilon;EthiopicExports:ExtenderFailFastFailcnt:FebruaryFields: Filters:FunctionGODEBUG=Gateway:Generic:GeorgianGetTokenGoStringGujaratiGurmukhiHTTP/1.1HTTP/2.0Hashes: HiraganaHugetlb:INDIRECTINSECUREINTERNALIPAMDataIf-

MatchIgnore()Implies;Indices:Ingress:InitErr:InstFailInstRuneInternalJavaneseJstype:
KatakanaKayah_LiKmsKeyIdLearningLeaving:LeftTee;Linear_ALinear_BLinknameListPidsLocale:
LocationLogEntryLowerDirMD5+SHA1MahajaniManager:ManifestMappingsMembers:Message:Method:
Methods:Metrics:Mixins: ModTime:Monitor:NO_ERRORNO_PROXYNS(None)NS(none)NSAP-
PTRNXDOMAINNetwork:NewLine;No such
NoBreak;NodeIDs:NodeLeftNodeNameNodeSpecNotFoundNotLess;NovemberNumber: ONBUILD
OPTIONALORPHANEDOl_ChikiOmicron;Oneofs:
OomKill:OpenTcp:Options:OverBar;PREVIOUSPRIORITYPacked:
ParseIntPayload:Periods:PgFault:PgPgOut:Pgfault:Pgsteal:Phags_PaPidsStatPlatformPlugins:PriorityProcess:ProdFi
psProduct;ProxyArpQuestionREJECTEDREQUIREDROLLBACKRPRIVATERSSHuge:RTMAX-10RTMAX-
11RTMAX-12RTMAX-13RTMAX-
14RTMIN+10RTMIN+11RTMIN+12RTMIN+13RTMIN+14RTMIN+15RdmaStatReadBoolReadFileReadInt8Rea
dOnlyReceivedRefCountReloadedRemove()Removed:RemovingReservedResourceRestart:RestrictRetries:Root
DirRuntime:RxBytes:SERVFAILSETTINGSSHA1-RSASHA3-224SHA3-256SHA3-384SHA3-512SHELL
%vSHUTDOWNSTARTINGSameSiteSamples:SaturdayScopes: Secret:
Secrets:SelectByService:ShimInfoShimPid:ShutdownSigned: StatFileStreams:Subject:Syntax:
Sysctls:TARGETOSTLSInfo:TagbanwaTai_ThamTai_VietTaskIDs:TaskNameTaskSpecThrottleThursdayTifinagh
Time:
%vTimeout:Trailer:TreeHashTxBytes:TypeAAAATypeAXFRTypeUrl:UDPErrorUPDATINGUgariticUlimits:UpA
rrow;Uparrow;Updates:UpperDirUpsilon;Values: VariableVariant:Version:VolatileWORKDIR XAddModeXattrs:
YXDOMAINZgotmplZ[%d->%d][%s>%s] [%s]: %v[::1]:53[:word:][DEBUG] []Image{[a-zA-Z][mapKey][signal
[zfs] %s"@type":"attrs":"config""value":

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elmergedmerklemethodmicro;middotmin_byminus;minutemips64mipselmipslemirredmkfifomlock2modestmodule
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natur;nbump;ncong;ndash;ndots:neArr;nearr;nedot;nesim;netdnsnewtonngeqq;ngsim;nh4 %snh6
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arr;nrtri;nsime;nsmid;nspar;nsubE;nsube;nsucc;nsupE;nsupe;ntildenumbernumsp;nvidianvsim;nwArr;nwarr;oacuteo
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aniniparentparsl;pascalpasswdpausedpermilpgpginpgscanphone;pimregpluginplusb;pluse;plusmnpolicypopcntposter
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rangd;range;raquo;rarrb;rarrc;rarrw;ratio;rbarr;rbbrk;rbrke;rceil;rdquo;rdrandrdseedreadU4readatreals;reasonrebootr
ef
%vregionreloadremoteremoverenamerepeatresizeresultresumereturnrfc822rfloorrhard;rharu;rhodesrlarr;rlhar;rnmid;
roang;roarr;robrk;rootfsropar;route2routesrrarr;rsaquorslaversquo;rtpriortrie;rtrif;rttimerune1
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spencesplicesplunksqcap;sqcup;sqsub;sqsup;squashsrarr;srcdocsrcsetssh://starf;stat64state(statesstatfsstatusstderrstd
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switchsyncfssyntaxsyslogsysmonsystemszlig;tar.gztar.xztargettarsumtasks.tc_newtcp://telnettendertgkillthawedthere
4theta;thinspthkap;thorn;threadtilde;timerstimes;tlskeytoml:
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/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
*pkcs11._Ctype_CK_C_GetSlotInfo/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/containerd
*pkcs11._Ctype_CK_C_GetSlotList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/containerd*struct { pragma.NoUnkeyedLiterals; Message protoreflect.Message; Buf []uint8; Flags uint8
} AnonThpTprotobuf:"varint,10,opt,name=anon_thp,json=anonThp,proto3" json:"anon_thp,omitempty"
ConfigMapKeyRefLjson:"configMapKeyRef,omitempty" protobuf:"bytes,3,opt,name=configMapKeyRef"
DaemonEndpointsLjson:"daemonEndpoints,omitempty" protobuf:"bytes,6,opt,name=daemonEndpoints"
ExitedAtSprotobuf:"bytes,2,opt,name=exited_at,json=exitedAt,proto3,stdtime" json:"exited_at"
ExitedAtSprotobuf:"bytes,3,opt,name=exited_at,json=exitedAt,proto3,stdtime" json:"exited_at"
ExitedAtSprotobuf:"bytes,4,opt,name=exited_at,json=exitedAt,proto3,stdtime"
json:"exited_at" ExitedAtSprotobuf:"bytes,5,opt,name=exited_at,json=exitedAt,proto3,stdtime" json:"exited_at"
GoPackageRprotobuf:"bytes,11,opt,name=go_package,json=goPackage" json:"go_package,omitempty"
KubeletEndpointLjson:"kubeletEndpoint,omitempty" protobuf:"bytes,1,opt,name=kubeletEndpoint"
NetNSMountsUnderStateDirCtoml:"netns_mounts_under_state_dir" json:"netnsMountsUnderStateDir"
NonResourceURLsLjson:"nonResourceURLs,omitempty" protobuf:"bytes,7,rep,name=nonResourceURLs"
OperatorSjson:"operator" protobuf:"bytes,2,opt,name=operator,casttype=LabelSelectorOperator"
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tgz/docker/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.SendMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Trailer/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.Context/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.RecvMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendHeader/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetHeader/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetTrailer/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.stringifyIntSliceFlag/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSlice).Value/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSlice).Set/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSlice).String/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSlice).Get/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag.String/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag.GetName/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag.IsRequired/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-

tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag.TakesValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag.GetUsage/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag.GetValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag.Apply/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag.ApplyWithError/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag.ApplyWithError.func1/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*Context).IntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.lookupIntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*Context).GlobalIntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrtype..eq.github.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSliceFlag).Apply/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSliceFlag).ApplyWithError/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSliceFlag).GetName/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSliceFlag).GetUsage/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSliceFlag).GetValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSliceFlag).IsRequired/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSliceFlag).String/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctrgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSliceFlag).TakesValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockeralpha;alwaysamacr;amalg;angle;angrt;angst;aogon;appendaring;asymp;atildeattachauthoravx512awint;bcong;bdquo;bearerbeforebepsi;blank;blk12;blk14;blk34;block;bootIDborderboxDL;boxDR;boxDl;boxDr;boxHD;boxHU;boxHd;boxHu;boxUL;boxUR;boxUl;boxUr;boxVH;boxVL;boxVR;boxVh;boxVl;boxVr;boxdL;boxdR;boxdl;boxdr;boxhD;boxhU;boxhd;boxhu;boxuL;boxuR;boxul;boxur;boxvH;boxvL;boxvR;boxvh;boxvl;boxvr;bracedbreve;bridgebrvbarbsemi;bsime;bsolb;bumpE;bumpe;ca-
keyca.pemcaret;caron;causesccaps;ccedilccirc;ccups;cedil;cephfschan<-
changecheck;cinderclientclosedclubs;colon;color:comma;configcookiecoordscpusetcrarr;createcross;csube;csupe;ctdot;ctrl-@ctrl-[ctrl-\ctrl-]ctrl-^ctrl-_ctrl-actrl-bctrl-cctrl-dctrl-ectrl-fctrl-gctrl-hctrl-ictrl-jctrl-kctrl-lctrl-mctrl-nctrl-octrl-pctrl-qctrl-rctrl-sctrl-tctrl-uctrl-vctrl-wctrl-xctrl-yctrl-
zcuepr;cuesc;cupor;currencuvee;cuwed;cwint;darwindashv;dblac;ddarr;definedeletedelim(delta;denieddeploydetachdevicedharl;dharr;diams;digestdisin;dividedns-
rmdockerdomaindoteq;driverdryRundtdot;dtrif;duarr;duhar;eDDot;eacuteecirc;efDot;efenceeffectegraveegressemacr

;empty
empty;env-rmeogon;eplus;epsiv;eqsim;equiv;erDot;erarr;errno errorsesdot;eventsexceptexec:
exist;existsexpectexpiryexportexposefailedfflig;field
filig;filterfjlig;fllig;fltns;followforkv;formatfrac12frac14frac34frasl;frown;fsTypegamma;gcirc;gcloudgescc;gimel;git://globalgneqq;gnsim;go1.5.go1.6.gophergrave;groupsgrpclbgsime;gsiml;gtcir;gtdot;hangupharrw;hcirc;headerheighthiddenhoarr;hostIPiacuteicirc;iexcl;igraveiiint;iiota;ijlig;imacr;image;imagesimath;imped;importinfin;iogon;ip+netipMaskiprod;iquestisinE;isins;isinv;iukcy;jcirc;jmath;jsCtx(jukcy;kappa;killedlAarr;lBarr;label!labelslangd;laquo;larrb;lates;latestlbarr;lbbrk;lbrke;lceil;lchownldquo;leaseslescc;lhard;lharu;lhblk;limitslistenllarr;lltri;lneqq;lnsim;loang;loarr;lobrk;lopar;lrarr;lrhar;lrtri;lsime;lsimg;lsquo;ltcir;ltdot;ltrie;ltrif;mDDot;mailtomastermdash;mediummemorymethodmetricmicro;middotminus;minutemips64modulemumap;nabla;napid;napos;natur;nbump;ncong;ndash;ndots:neArr;nearr;nedot;nesim;netbsdnetdnsngeqq;ngsim;nhArr;nharr;nhpar;nlArr;nlarr;nleqq;nless;nlsim;nltri;nocopynodeIDnoexecnofilenomandnosuidnotin;notni;npart;nprec;nrArr;nrarr;nrtri;nsime;nsmid;nspar;nsubE;nsube;nsucc;nsupE;nsupe;ntildenumbernumsp;nvsim;nwArr;nwarr;oacuteobjectocirc;odash;oelig;ofcir;ograveohbar;olarr;olcir;oline;omacr;omega;onlineopaqueoperp;oplus;orarr;order;originoslashostypeotildeoutputovbar;parsl;pausedpdNamephone;pluginplusb;pluse;plusmnpodIPspolicypopcntposterpound;prcue;prefixprettyprime;printfprnap;promptprsim;quest;rArr;rBarr;radic;rangd;range;rangesraquo;rarrb;rarrc;rarrw;ratio;rbarr;rbbrk;rbrke;rceil;rdquo;rdrandrdseedreadU4readatreals;reasonremoteremoverenamereturnrhard;rharu;rlarr;rlhar;rnmid;roang;roarr;robrk;ropar;rotaterrarr;rsapssrlaversquo;rtpriortrie;rtrif;rttimerune1
sbquo;scalarsccue;schemaschemescirc;scnap;scopedscopesscriptscsim;sdotb;sdote;seArr;searchsearr;secondsecretselectsendtoseriesserversetenvsetmn;sha256sha384sha512sharedsharp;sigma;signalsignersimeq;simgE;simlE;simne;slarr;smile;smtes;socketsocks
socks5sourcesplicesqcap;sqcup;sqsub;sqsup;squashsrarr;srcdocsrcsetstacksstagesstarf;state(statusstderrstdoutstream stringstrns;structsubnE;subne;subnetsupnE;supne;swArr;swarr;sweep
switchsysctlsysmonsystemszlig;taintstar.gztar.xztargettcp://telnettenanttheta;thkap;thorn;tilde;timerstimes;tlskeytrade;trisb;tshcy;twixt;typeofuacuteubrcy;ucirc;udarr;udhar;udp://ugraveuharl;uharr;uhblk;uint16uint32uint64ulimitultri;umacr;uniqueunlockunpigzunuseduogon;updateuplus;upsih;uring;urtri;usagesusemapusernsustar
ustar/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerDOWNGRD DSA-SHA1DataLossDecemberDefault:Detail:
Details:DevmajorDevminorDiamond;DiffCopyDisable:Divisor:DownTee;Drivers:DuployanDurationElement;EndpointEntries:EnvFrom:Epsilon;EthiopicExtenderFINISHEDFSGroup:FebruaryFields:
FieldsV1Filters:Flocker:GODEBUG=Gateway:Generic:GeorgianGitRepo:GoStringGujaratiGurmukhiHOSTNAMEHTTP/1.1HTTP/2.0HTTPGet:Handler:HeadlessHiraganaHostIPC:HostPID:HostnameIMAGE
IDINSECUREINTERNALIPBlock:ImageID:Implies;Indices:Ingress:InstFailInstRuneInternalJavaneseJstype:
KatakanaKayah_LiKeyring:LeftTee;Linear_ALinear_BLinknameListMetaLocale:
LocationMD5+SHA1MahajaniManager:ManifestMaxSkew:MemUsageMembers:Message:Method:
Methods:Metrics:Mixins:
ModTime:Monitor:NETWORKSNO_ERRORNO_PROXYNetwork:NetworksNewLine;NoBreak;NodeBoolNodeIDs:NodeListNodeSpecNodeTextNotFoundNotLess;NovemberNumber:
OFFICIALORPHANEDOSImage:Ol_ChikiOmicron;Oneofs:
Options:OverBar;OverheadPREVIOUSPRIORITYPacked:
ParseIntPasswordPayload:Phags_PaPlatformPlugins:PodCIDR:Portals:PreStop:PriorityProduct;QuantityQuestionQuobyte:RBDPool:REJECTEDREPLICASROLLBACKRPRIVATERTMAX-10RTMAX-11RTMAX-12RTMAX-13RTMAX-
14RTMIN+10RTMIN+11RTMIN+12RTMIN+13RTMIN+14RTMIN+15ReadBoolReadInt8ReceivedRelated:Removed:ReplicasRequest:ResourceRestart:Retries:RoleRef:Root
KeyRunning:Runtime:SELinux:SERVICESSETTINGSSHA1-RSASHA3-224SHA3-256SHA3-384SHA3-512SHUTDOWNSTARTINGSameSiteSaturdayScaleIO:Scopes: Seconds:Secret:
Secrets:SelectByService:ServicesSigned:

SnapshotSources:StackAPIStarted:Streams:SubPath:Subject:Subsets:Suspend:Syntax:
Sysctls:TLSInfo:TagbanwaTai_ThamTai_VietTaskIDs:TaskSpecThursdayTifinaghTimeout:Trailer:TypeAAAATyp
eAXFRTypeMetaTypeUrl:UPDATINGUgariticUlimits:UpArrow;Uparrow;Updates:Upsilon;User
PinUserInfoUsernameValues: Version:Volumes:Waiting:Webhook:Xattrs: ZgotmplZ[%s>%s]
[::1]:53[:word:][]Event{[]Lease{[]PodIP{[]Taint{[a-zA-Z][mapKey][signal "@type":"Config""value":

Found in path(s):
* *specs.WindowsStorageResources
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker

Found in path(s):
* ZeroFields
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr
decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr
*channelz.channel *cipher.BlockMode *cli.DurationFlag *cli.IntSliceFlag *cli.RequiredFlag *cni.ConfigResult
*containerd.Image/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr
*timeseries.tsLevel *tls.ClientAuthType/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctr *[]*timeseries.tsLevel/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/ctr

Found in path(s):
* json:"msg" MulticastAddrs OnlyCachedConn ProgressOutput ReadBufferSize ReplaceAllFunc RequiredNotSet
ReservedRanges ResponseToHEAD RevocationTime ScalarBaseMult SetEmitEnabled SetReuseFrames
SetWithComment SetWithOptions SetWriteBuffer SetsockoptByte SignatureValue SkipAdditional SkipAllAnswers
SkipArgReorder StreamsStarted TransferCTable TypeDescriptor UnmarshalState VerifiedChains VerifyHostname
VersionService WriteRSTStream XXX_OneofFuncs
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdr*struct { F uintptr;
wg *sync.WaitGroup; s *grpc.Server; st transport.ServerTransport; roundRobinCounter *uint32 }

Found in path(s):
* PgdeactivateOprotobuf:"varint,27,opt,name=pgdeactivate,proto3" json:"pgdeactivate,omitempty"
PodAntiAffinityLjson:"podAntiAffinity,omitempty" protobuf:"bytes,3,opt,name=podAntiAffinity"
PreferAvoidPodsLjson:"preferAvoidPods,omitempty" protobuf:"bytes,1,rep,name=preferAvoidPods"
ResourceVersionLjson:"resourceVersion,omitempty" protobuf:"bytes,1,opt,name=resourceVersion"
ResourceVersionLjson:"resourceVersion,omitempty" protobuf:"bytes,2,opt,name=resourceVersion"
ResourceVersionLjson:"resourceVersion,omitempty" protobuf:"bytes,4,opt,name=resourceVersion"
ResourceVersionLjson:"resourceVersion,omitempty" protobuf:"bytes,6,opt,name=resourceVersion"
ResourceVersionLjson:"resourceVersion,omitempty"
protobuf:"bytes,7,opt,name=resourceVersion" StoragePolicyIDLjson:"storagePolicyID,omitempty"
protobuf:"bytes,4,opt,name=storagePolicyID" VolumeNamespaceLjson:"volumeNamespace,omitempty"
protobuf:"bytes,2,opt,name=volumeNamespace"

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

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd *sha512.digest *snapshots.Opt *sort.IntSlice *spdy.StreamId *specs.Process *specs.Solaris *specs.VMImage *specs.Windows/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd *zstd.fseState AbsolutePrefix AdActorSysPrio AddASN1Boolean AddASN1UTCTime AddMatchSignal AddNetworkList AllAdditionals AllAuthorities AppendFullName ApplyWithError AsFloat64Slice AuthorityKeyId AuthorizerOpts BalancerConfig BorrowIterator BoundaryBefore BreakWithError BytesBase64Var C_CloseSession C_CreateObject C_DecryptFinal C_DigestUpdate C_EncryptFinal C_GetTokenInfo C_VerifyUpdate CallsSucceeded CapabilityArgs ChannelzMetric CheckSignature CheckpointOpts ChildSpanCount ClockFrequency CloseWithError CombinedOutput CommonAuthInfo CompareAndSwap CompressorType ContainerStats ContentSubtype ConvertSchema1 Cpu
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *sha512.digest *socks.Command *sort.IntSlice *ssh.PublicKey
*ssh.Signature/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *zip.nopCloser AddASN1Boolean AddASN1UTCTime AllAdditionals AllAuthorities Aud
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd *solver.expDep *sort.IntSlice *source.Source *specs.Process *specs.Solaris *specs.VMImage *specs.Windows *srslog.Framer *srslog.Writer *ssh.PublicKey *ssh.Signature/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd *zk.syncRequest AAAA

Found
in path(s):
* ZeroReadIsEOF
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.convTslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.notetsleep_internal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.notetsleep/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.notetsleepg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.printslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.runqputslow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxysync.(*Pool).getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxytime.digitsLen/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.convTslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.notetsleep_internal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.notetsleep/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.notetsleepg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.printslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxyruntime.runqputslow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxysync.(*Pool).getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd-I-L-N-O-P-R-S-X-c-d-e-f-i-j-m-n-o-p-q-r-s-t-u-v-w.*...0.1.:._/*/.///=/C/S/i00010X0b0n0o0s0x1.13255380:
:/:::=:]; <!<-<<<=<><?<@=#='===?="">
>=>>?=?>??A3A4BEByCACHCNCSCcCfCoCsDHDSEBGAGBGOGTHSIDINIOKBKXLELPLTLlLmLoLtLuM

BMDMFMGMRMXMcMeMnMuNSNdNlNoNuOKOUOsPBPXPcPdPePfPiPoPsRPRTSTScSkSmSoTATBTZTeToUPV0V1V2V3V5V6V7XiYBYiZBZ"ZlZpZs[?[][^"
")":">"

Found in path(s):
* found bad pointer in Go heap (incorrect use of unsafe or cgo?)runtime: internal error: misuse of lockOSThread/unlockOSThreadruntime.SetFinalizer: pointer not at beginning of allocated blockbytes.Buffer: UnreadByte: previous operation was not a successful readcannot convert slice with length %y to pointer to array with length %xtoo many concurrent operations on a single file or socket (max 1048575)reflect.Value.Interface: cannot return value obtained from unexported field or methodreflect: New of type that may not be allocated in heap (possibly undefined cgo C type)000102030405060708091011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636465666768697071727374757677787980818283848586878889909192939495969798 99
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd

Found in path(s):
* *cmp.PathStep
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim
*runtime.wbBuf *sort.IntSlice *specs.Process *specs.Solaris *specs.VMImage *specs.Windows *status.Status/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim{}|0|1|=||}
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2
*sha256.digest *sort.IntSlice *specs.Process *specs.Solaris *specs.VMImage *specs.Windows *stats.CPUStat *stats.IOEntry *stats.Metrics *status.Status/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2
decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2$%')+-.013:<=>?@FMPSZ^`dfghikmnopqstuvy|
+ @ P [!=%-%=%T%d%q%v%x&&&=&^("))()
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/runc

Found in path(s):
* lazyInitSlow
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerruntime.convTslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerruntime.notetsleep_internal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerruntime.notetsleep/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerruntime.notetsleepg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerruntime.printslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-

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tgz/docker/dockergo.itab.*github.com/docker/cli/cli/command/swarm.ipNetSliceValue,github.com/docker/cli/vendor/github.com/spf13/pflag.Value/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockergo.itab.*github.com/docker/cli/vendor/k8s.io/api/core/v1.EndpointsList,github.com/docker/cli/vendor/k8s.io/apimachinery/pkg/runtime.Object/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockergo.itab.*github.com/docker/cli/vendor/k8s.io/api/core/v1.EndpointsList,github.com/docker/cli/ven

dor/github.com/gogo/protobuf/proto.Message/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockergo.itab.*github.com/docker/cli/vendor/k8s.io/client-go/kubernetes/typed/discovery/v1alpha1.endpointSlices,github.com/docker/cli/vendor/k8s.io/client-go/kubernetes/typed/discovery/v1alpha1.EndpointSliceInterface/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockergo.itab.*github.com/docker/cli/vendor/k8s.io/api/discovery/v1alpha1.EndpointSlice,github.com/docker/cli/vendor/k8s.io/apimachinery/pkg/runtime.Object/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockergo.itab.*github.com/docker/cli/vendor/k8s.io/api/discovery/v1alpha1.EndpointSliceList,github.com/docker/cli/vendor/k8s.io/apimachinery/pkg/runtime.Object/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockergo.itab.*github.com/docker/cli/vendor/k8s.io/api/discovery/v1alpha1.EndpointSlice,github.com/docker/cli/vendor/github.com/gogo/protobuf/proto.Message/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockergo.itab.*github.com/docker/cli/vendor/k8s.io/api/discovery/v1alpha1.EndpointSliceList,github.com/docker/cli/vendor/github.com/gogo/protobuf/proto.Message/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker_cgo_6e6033ab3227_Cfunc_GetSlotInfo/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker_cgo_6e6033ab3227_Cfunc_GetSlotList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerGetSlotList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerGetSlotInfo/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-initThe
MIT License (MIT)

Found in path(s):
* VolumeOptionsdprotobuf:"bytes,6,opt,name=volume_options,json=volumeOptions,proto3" json:"volume_options,omitempty" Webhooksijson:"webhooks,omitempty" patchStrategy:"merge" patchMergeKey:"name" protobuf:"bytes,2,rep,name=Webhooks"
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdX*struct { Type string; Actions [][]uint8; Indexes [][]int "json:\"indexes,omitempty\"" }

Found in path(s):
* *snapshots.snapshotsListServer
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdruntime.convTslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdruntime.notetsleep_internal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdruntime.notetsleep/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdruntime.notetsleepg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdruntime.printslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdruntime.runqputslow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdsync.(*Pool).getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdreflect.cvtSliceArrayPtr/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdsort.IntSlice.Search/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-

tgz/docker/dockerdsort.IntSlice.Len/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdsort.IntSlice.Less/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdsort.IntSlice.Swap/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdsort.IntSlice.Sort/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdsort.(*IntSlice).Len/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdsort.(*IntSlice).Less/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdsort.(*IntSlice).Search/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdsort.(*IntSlice).Sort/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdsort.(*IntSlice).Swap/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdtime.digitsLen/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdpath.lastSlash/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/pkg/errors.StackTrace.formatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/golang/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/golang.org/x/net/internal/timeseries.(*tsLevel).Clear/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/golang.org/x/net/internal/timeseries.(*tsLevel).InitLevel/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/docker/swarmkit/api.(*SelectBy).GetSlot/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdencoding/gob.decIntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdencoding/gob.decUintSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdencoding/gob.encIntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdencoding/gob.encUintSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/gorilla/mux.(*Router).StrictSlash/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Recv/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Send/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).CloseSend/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Context/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).Header/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).RecvMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListClient).SendMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*

snapshotsListClient).Trailer/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).Context/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).RecvMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SendHeader/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SendMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetHeader/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.(*snapshotsListServer).SetTrailer/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.CloseSend/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Context/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Header/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.RecvMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.SendMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListClient.Trailer/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.Context/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.RecvMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendHeader/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SendMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetHeader/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetTrailer/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*boolSliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*durationSliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*float32SliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*float64SliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*int32SliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*int64SliceValue).GetSlice/opt/cola/p

ermits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*intSliceValue).Set/opt/cola/permits/
2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*intSliceValue).Type/opt/cola/permit
s/2638087389_1758660464.1729765/0/docker-20-10-17-
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ts/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*intSliceValue).Append/opt/cola/per
mits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*intSliceValue).Replace/opt/cola/per
mits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*intSliceValue).GetSlice/opt/cola/per
mits/2638087389_1758660464.1729765/0/docker-20-10-17-
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7389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*FlagSet).GetIntSlice/opt/cola/permit
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tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*FlagSet).IntSliceVar/opt/cola/permit
s/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.newIntSliceValue/opt/cola/permits/26
38087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*FlagSet).IntSliceVarP/opt/cola/perm
its/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*FlagSet).IntSlice/opt/cola/permits/2
638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*FlagSet).IntSliceP/opt/cola/permits/
2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*ipSliceValue).GetSlice/opt/cola/per
mits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*stringArrayValue).GetSlice/opt/cola
/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*stringSliceValue).GetSlice/opt/cola/
permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*uintSliceValue).Set/opt/cola/permits
/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*uintSliceValue).Type/opt/cola/permi
ts/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*uintSliceValue).String/opt/cola/per
mits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*uintSliceValue).Append/opt/cola/per
mits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*uintSliceValue).fromString/opt/cola/
permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*uintSliceValue).Replace/opt/cola/pe
rmits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*uintSliceValue).GetSlice/opt/cola/pe
rmits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*uintSliceValue).toString/opt/cola/pe

rmits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.uintSliceConv/opt/cola/permits/26380
87389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*FlagSet).GetUintSlice/opt/cola/perm
its/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*FlagSet).UintSliceVar/opt/cola/perm
its/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.newUintSliceValue/opt/cola/permits/2
638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*FlagSet).UintSliceVarP/opt/cola/per
mits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/spf13/pflag.(*FlagSet).UintSlice/opt/cola/permits/
2638087389_1758660464.1729765/0/docker-20-10-17-
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/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdtype..eq.github.com/docker/docker/vendor/github.com/spf13/pflag.intSliceValue/opt/cola/permit
s/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdtype..eq.github.com/docker/docker/vendor/github.com/spf13/pflag.uintSliceValue/opt/cola/permi
ts/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/moby/buildkit/solver.toResultSlice/opt/cola/permit
s/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdgithub.com/docker/docker/vendor/github.com/moby/buildkit/solver/llbsolver/mounts.CacheMou
ntsLocker/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdruntime.convTslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
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17-tgz/docker/dockerdruntime.notetsleep/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
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RawWrite ReadByte ReadFrom ReadLine ReadRune ReaderAt Readlink Required Resolver Rootless RunCount RunHooks RxErrors Scope_id Sections Sequence Services SetALUOp SetBytes SetEDNS0 SetFlags SetFloat SetInt64 SetLevel ShellJob Shstrndx Shutdown Signaled Simplify SizeType SkipTrue Snapshot Spoofchk StatusFd StopUnit SubState Subtract SysUsage TextName Truncate TxErrors TypeName UnitName UnixConn UnixNano UserTime Username Validate VisitAll Warningf WithTime WriteInt WriteMsg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/runc

Found
in path(s):
* UnsolicitedLprotobuf:"varint,2,opt,name=unsolicited,proto3" json:"unsolicited,omitempty"
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/runc *sha512.digest *sort.IntSlice *specs.Process *specs.Solaris *specs.VMImage *specs.Windows/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/runc *unix._Socklen *user.ExecUser AbsolutePrefix AdActorSysPrio AddMatchSignal AllAdditionals AllAuthorities AppendFullName ApplyWithError CPU

Found in path(s):
* *dbus.Variant
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdTLS_ECDHE_RSA_WITH_AES_128_CBC_SHATLS_ECDHE_RSA_WITH_AES_256_CBC_SHAUnable to write frame to %d: %v /opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimruntime.convTslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimruntime.notetsleep_internal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimruntime.notetsleep/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimruntime.notetsleepg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimruntime.printslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimruntime.runqputslow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsync.(*Pool).getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimtime.digitsLen/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimreflect.cvtSliceArrayPtr/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsort.IntSlice.Search/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsort.IntSlice.Len/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsort.IntSlice.Less/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsort.IntSlice.Swap/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsort.IntSlice.Sort/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsort.(*IntSlice).Len/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsort.(*IntSlice).Less/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-

tgz/docker/containerd-shimsort.(*IntSlice).Search/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsort.(*IntSlice).Sort/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimsort.(*IntSlice).Swap/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimpath.lastSlash/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/github.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/github.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/github.com/pkg/errors.StackTrace.formatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow·dwrap·4/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shimgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow·dwrap·3/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2 getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2 getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2 /opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2runtime.convTslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2runtime.notetsleep_internal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2runtime.notetsleep/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2runtime.notetsleepg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2runtime.printslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2runtime.runqputslow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sync.(*Pool).getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2time.digitsLen/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-

v2reflect.cvtSliceArrayPtr/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.IntSlice.Search/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.IntSlice.Len/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.IntSlice.Less/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.IntSlice.Swap/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.IntSlice.Sort/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.(*IntSlice).Len/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.(*IntSlice).Less/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.(*IntSlice).Search/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.(*IntSlice).Sort/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2sort.(*IntSlice).Swap/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2path.lastSlash/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/github.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/github.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow·dwrap·4/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow·dwrap·3/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2github.com/containerd/containerd/vendor/github.com/pkg/errors.StackTrace.formatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctrutdot;utimesutrif;uuarr;v%d.%dvBarv;vDash;value:varintvarpi;vdash;veeeq;vltri;vnsub;vnsup;void#0vprop;vrtri;waitidwcirc;wedge;weightwritevxcirc;xdtri;xhArr;xharr;xlArr;xlarr;xodot;xrArr;xrarr;xutri;yacuteycirc;%gs

UUID: %v=%v, (conn) (scan (scan) (trap MB in Value> action allocs dying= error flags= len=%d locks= m->g0= nmsys= s=nil
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctrTLS_ECDHE_RSA_WITH_AES_128_CBC_SHATLS_ECDHE_RSA_WITH_AES_256_CBC_SHA [flags] CONTAINER [CONTAINER, ...]adding nil Certificate to CertPoolallow connections using plain HTTParchive/tar: header field too longbad pointer in byte slice case in bad scalar length: %d, expected %dbad tag in lazy extension decodingbetterFastEncoder: Reset with dictcan't evaluate field %s in type %scan't handle %s for arg of type %scan't read type info for id %v: %vcan't write instruction offset: %vcannot load seccomp profile %q: %vcannot unmarshal an event from Anycgroups: unable to remove paths %schacha20:
wrong HChaCha20 key sizeconnection doesn't support Ed25519containerd.events.TaskCheckpointedcontainerd.io/defaults/snapshottercontainerd.io/distribution.source.containerd.task.v2.ConnectResponsecontainerd.task.v2.ShutdownRequestcould not get free loop device: %wcould not open loop device: %s: %wcrypto/aes: invalid buffer overlapcrypto/des: invalid buffer overlapcrypto/rc4: invalid buffer overlapcrypto/rsa: missing public modulusdoaddtimer: P already set in timerdriver: remove argument from queryduration (%v) exceeds +10000 yearsduration (%v) exceeds -10000 yearsenable the default seccomp profileerror setting option on socket: %vexecutable file not found in $PATHexpected an RSA public key, got %Texpected comma after array elementexports content from all platformsextraction snapshot removal failedfailed to mount from repository %sfailed to read config file: %v: %wfailed to resolve reference %q: %wfailed to set loop device info: %vfailed to unmarshal raw result: %wfailed to write image manifest:
%wflag provided but not defined: -%sforEachP: sched.safePointWait != 0frame_settings_window_size_too_bigframe_windowupdate_zero_inc_streamgogoproto.goproto_unrecognized_all google.protobuf.FieldOptions_CTypegoogle.protobuf.Struct.FieldsEntrygrpc: message too large (%d bytes)http2: aborting request body writehttp: MultipartReader called twicehttp: connection has been hijackedhttp: persistConn.readLoop exitinghttp: read on closed response bodyi/o operation on closed connectionillegal base64 data at input byte in \u hexadecimal character escapeinternal error: block too big (%d)invalid nested repetition operatorinvalid or unsupported Perl syntaxinvalid padding bits in BIT STRINGinvalid version %q: too many partsio.containerd.cgroups.v1.BlkIOStatio.containerd.cgroups.v1.RdmaEntryio.containerd.cgroups.v2.RdmaEntrymedia-type: schema 1 not supportedmismatching field: got %v, want %vmspan.ensureSwept: m is not lockedno manifest found for platform: %wno matching entries in passwd fileonly
manifests may be exported: %wout of bounds access of target: %wout of memory allocating allArenasproto: duplicate enum registered: proto: unexpected type %T in oneofprotobuf tag not enough fields in reflect.FuncOf: too many argumentsreflect: ChanDir of non-chan type reflect: Field index out of boundsreflect: Field of non-struct type reflect: Method index out of rangereflect: recv on send-only channelreflect: send on recv-only channelreflect: string index out of rangeremove the container after runningrequested skippable frame (%d) < 8runtime.SetFinalizer: cannot pass runtime: g is running but p is notruntime: netpollBreak write failedruntime: unexpected return pc for schedule: spinning with local worksemaphore: released more than heldslice bounds out of range [%x:%y:]slice bounds out of range [:%x:%y]snappy: decoded block is too largesnappy: unsupported literal lengthspecify the path to the stdin fifostorage.read_count_normalized %d
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerTLS_ECDHE_RSA_WITH_AES_128_CBC_SHATLS_ECDHE_RSA_WITH_AES_256_CBC_SHATar:
Can't stat file %s to tar: %sThe name or reference was invalid.Top-level object must be a mappingTrust certs signed only by this CAUnable to find image '%s' locally
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxy getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-proxy`hms{} + @ P [(''))()
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerdTsL/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd

*uint64 *zk.ACL Acquire Actions AddASN1 AddAuth AddBool AddCert AddData AddDate AddEnvf AddFlag Addl
AddHost AddJSON AddLink AddMeta AddPeer AddProc AddTask AddTime AddWait AddZone AddrAdd AddrDel
Address Advance AlgCode Aliases Allowed Ancount Applied Applier Arcount AssocID AtLeast AuthURL Backend
Backlog Backoff BaseURI Bindcnt Binding BitSize Blksize Blobsum BoolVar BucketN Buckets BufSize BuildID
BusName CMajFlt CMinFlt CPUTime CSMHost CSMPort CStderr CStdout CacheID CanAddr CapDrop Catalog Cbu
CellLog Cgroups ChainID ChanDir Changed Changes Channel CheckFn CheckID ChildIP Ciphers ClassId Cleanup
CloseIO Cluster CmdLine CmpPort Collect Command Comment Compact Compare Complex Conceal Configs Confi
Conn_id Connect Console Consume Content Context Control Convert Cookies Counter Country Created Current Cur
DNSDone DNSName DataDir Datasec DebugFn DebugGC Debugln Decoder Decrypt Default Dequeue Destroy Deta
Dev_idx Devices DialTCP DialTLS Disable Discard Display Divisor DstAddr DstName DstPort Dst_len DupCorr Dy
EachRef Eaction Elapsed EmitInt EmitKey Enabled Encoded Encoder Encrypt EndLine EndTime Enqueue Entries En
ErrCode ErrorFn Errorln Eswitch EventCh Example ExecIDs Execute ExistsW Expires Explain Exports ExtDNS2 Ex
Fackets FailTTL Failure FatalFn Fatalln Feature Fetcher Filters FindAll FixTask Float32 Float64 Flushed Flusher Fo
Forward FouList Freeing GIDMaps Gateway GetArgs GetBody GetBool GetByID GetCaps GetCode GetCols GetCon
GetCopy GetData GetDest GetDone GetDrop GetEnum GetExec GetExit GetFile GetHelp GetHost GetInfo GetInit G
GetItem GetKey3 GetKeys GetKind GetLast GetLazy GetLine GetList GetLogs GetMean GetMeta GetMode GetNam
GetNext GetNode GetOCSP GetPath GetPeer GetPort GetPost GetRefs GetRole GetRoot GetRows GetSalt GetSink
GetSize GetSlot GetSpan GetStat GetSums GetTask GetType GetUint GetUnit GetUser GetWeak GotConn Hairpin
Handled Handler HasKeys HasLink HasNext HdrSize Headers HeapSys History Holders HomeDir HostKey Hrtimer
IAMInfo IDPBES2 IPAddrs IPMaskP IPSlice IPTable ISOWeek IfIndex Ifindex IifName ImageID Imports In6Addr
Inblock Include Indexer Indexes Ingress IniData Initial InsnOff Inspect Install Int8Var IntVarP Integer Inverse IpcMo
IsAgent IsAlive IsBytes IsEdns0 IsEmpty IsError IsFloat IsInt64 IsValid Iterate KVStore KeyFile KeySize KeyType
Keyring KillAll LLBCaps Latency LazyLog LeadCCC LevelAt LikePtr LinkAdd LinkDel Linkage LoadRef LocalIP
Locator LockKey LogName LogPath LogSync Logging Longest Lookups MACSize MPLSDst Machine Macvlan
MakeMap Mallocs Managed Manager MantExp MapKeys MapOpts MapType Mapping Marshal Matcher Matches
MaxAttr MaxBits MaxSize Maximum Measure MemFree Members MergeIn Message Methods Metrics Migrate MinP
MinTime Minimum Minutes Mirrors ModSqrt ModTime Msgsize Mutable NameOff NetMode NetNSFD NetNsID
Network NewDesc NewLock NewPath NewTask NextHop NextKey NoCache NoPivot NoProxy Noticef Nscount
NumResp NumUnit Observe OffMask Offmask OifName OldNode OldTask OnBuild OnError OneShot OpenTxN Op
Ordinal OrigErr OrigTtl Oublock Outputs Packets Padding PanicFn Panicln Parents ParseFS PassTTL PauseNs Paylo
PeelOff PeersID PidFile PidMode PkgPath Pkttype Plugins Pointer PortLow PortVID PostRun PreRunE PreVote Prep
Present Presign Primary PrintFn Println Priomap Proceed Process Product Profile Program Promisc Propose Publish
Quantum Queries QueueID QueueId RLocker RUnlock RWMutex RateEst RawBody RawData RawJSON RawPath
RawRead Rcv_mss Rcv_rtt ReadAll ReadAny ReadBit ReadDir ReadInt ReadMsg ReadNil ReadTCP ReadUDP Read
Readdir ReadyCh Receive Records RecvMsg RefName RefType Referer Refresh Regions Release Remotes Removed
Replace Request Reserve Resolve Respond Restart Restore Retrans Retryer Reverse RoleARN RootCAs RuleAdd Ru
Running Runtime RxBytes SCTList Sampler Sandbox ScaleBy Schemes Seccomp Seconds Secrets Section SendMsg
Servers Service Session SetAddr SetArgs SetAxfr SetBits SetBool SetCode SetFlag SetFrac SetFrom SetIxfr SetKeys
SetKind SetMeta SetMode SetName SetPrec SetSize SetTags SetTask SetTime SetTree SetTsig SetUint SetVlen Setc
Setpgid Setting ShmPath ShmSize Shuffle SigAlgo Signbit Similar Snd_mss Sockets SoftIRQ Sources SpecRef SrcA
SrcName SrcPort Src_len Started StdTime Stopped Storage Streams StringP StructT SubConn SubPool SubType Subj
Subnets Subtype Success Summary Symbols Symlink Syscall TCPInfo TLSInfo TagConn TagKeys Tasklet TimeOut
Timeout ToArray ToIPNet ToInput ToInt32 ToInt64 ToNames ToProto ToSlash ToSlice ToState TraceFn TraceID T
Trailer TryRecv TrySend TxBytes TxStats TypeLen TypeOff UDPCSum UDPSize UIDMaps URLHost URLPath
UTSMode Uint16P Uint32P Uint64P UintVar Ulimits Unacked Unknown Unmount Unwrite UpDelay Upgrade UseLi
UseTime User_id V1Image Variant Verbose Version VertPre Visited Volsize Volumes VxlanId WarnTTL Warning
WasIdle Watcher Weekday Weights Witness WorkDir Workers Wrapped WriteAt WriteTo Written X__pad0 YearDay
YellowB YellowF/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd

getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd *v4.rule
*wal.WAL *zk.Conn *zk.Lock *zk.Mode *zk.Stat Absolute ActorKey AdSelect AddBytes AddChain AddChild AddE
AddError AddMount AddUint8 AddValue AddrList AddrType Addrtype Allocate Altitude Annotate AppArmor Apply
Attached Attempts Audience AuthInfo AuthType AutoSync Aversion Backdate BaseName Behavior BindAddr BindPo
Binomial Blobsums BoolVarP Buffered ByteHard ByteSoft BytesHex CPUQuota Ca_state CacheHit CacheKey Cache
CacheOpt CalledAs Campaign CanMknod CancelAt Canceled CapNames CastType Category CertFile CertType
Checksum Children ChownOpt ClassAdd ClassDel ClientID Coalesce Commands Comments Complete Compress
ConfigID Conflict ConnPool Constant Contains ContentD Continue CopyFile CopyFrom CopyList CopyNext CopyPip
CoreDump CountVar Creation CrossOut Cversion DNSNames DNSStart DataLoss DataPath DataSize Datasets Deadli
DefValue DefaultB DefaultF Delegate Demangle Describe Detailed DevMajor DevMinor Devmajor Devminor DiffCo
DiffSize Digester Download Duration EachPage ElseList EmitBool EnableGC Encircle EncodeTo Encoding Endpoint
ErrorLog Evaluate EventNum Examples Exchange Excludes ExecFunc ExecRoot ExecuteC Executor Exemplar ExitCo
ExitFunc ExitTime ExitedAt Expanded Expected ExportTo Exporter Extended FTPProxy Facility FailFast Failures
Familiar Families Features FieldMap FileInfo FileLine FileName FileSize Filename Finalize FindType Finished Float3
Float64P FlowInfo Flowinfo FlushAll FormFile FormName Fragment FromArgs FromDisk Frontend Function GCPoli
GRPCConn Generate GetAttrs GetBegin GetBuild GetCache GetCount GetCtype GetEntry GetError GetField GetFina
GetFirst GetGauge GetGroup GetIPNet GetImage GetInUse GetIndex GetInfos GetInput GetInt16 GetInt32 GetInt64
GetLabel GetLayer GetLevel GetLinks GetMajor GetMinor GetMkdir GetMount GetNanos GetNodes GetOwner GetP
GetPaths GetQuota GetRange GetRealm GetRoute GetRules GetScale GetShard GetSinks GetSize_ GetSlice GetStart
GetState GetTasks GetToken GetTotal GetTrace GetTypes GetUint8 GetValue GetWatch GetWidth Getxattr GoString
GroupAdd GroupIds HTTPPath Handlers HasAlias HasError HasFired HasFlags HashFunc HeapIdle HelpFunc Hijack
Hijacker HopLimit Hoplimit HorizPre HostAddr HostName HostOnly HostPort Hostname HttpAuth HttpOnly IDPBK
IPAMData IPNetVar IPSliceP IPv4Data IPv6Data IdleTime IfaValid InUserNS Indirect InitFunc InitSpec InsertID Ins
Int16Var Int32Var Int64Var Int8VarP IntSlice IntValue Internal Interval IpamInfo IsAlways IsAssign IsBridge IsClien
IsFolded IsHyperV IsLeader IsMember IsNormal IsPacked IsPaused IsPinned IsProto3 IsPseudo IsScalar IsSecure IsS
IsStream IsString IsSubset IsUint64 Iterator JSONName JoinAddr JoinRaft KexAlgos KeyBytes KeyLease KeyUsage
KillShim KindFlag LLIPAddr LacpRate Language Latitude Learning LengthOf LessThan LinkFrom LinkList LinkNam
LinkType Linkname ListKeys ListLogs ListOpts ListPids Listener Locality Location LockOpts LockedAt LogEvent
LogLevel LookupIP LookupMX LookupNS LossCorr MACAddrs MSpanSys MagentaB MagentaF Manifest MapIndex
MapRange MarkDead Maskable Maskbits MatchErr MaxDelay MaxFiles MemTotal Messages Metadata MinLinks
MinValue Minburst MkdirAll MulRange Multiply MustSync MyWindow NameList NameUsed NdotsSet Negation
NeighAdd NeighDel NeighSet NetIPNet Networks NewChain NewChild NewGauge NewRoute NewTimer NextLine
NextPage NextPart NextType NlMsghdr NoCommit NoLchown NodeAddr NodeGuid NodeMeta NodeName NodeTyp
NotAfter NotFound NotHoist NotifyCb Nsignals NumField NumLabel NumNodes NumPorts Official Offshift OnCom
OpenFile Optional OrigErrs OrigName Original OtherLen OtherSys Overhead Overline PEMBlock PMtuDisc PacketC
PageInfo PageSize ParentIP ParseAll ParseErr Password Patterns PauseEnd PeakRate Peakrate PeerAddr PeerConn
PeerName Platform Policies Populate PortHigh Position PostForm PostRunE Pow22523 PowerSet PreferGo PrintErr
Priority Progress Protinfo Protocol Provider Province ProxyArp ProxyEnv PruneTag PushBack PusherID QdiscAdd
QdiscDel QueryIDs Question Queue_id RGB3BitB RGB3BitF RGB8BitB RGB8BitF RawBytes RawFlags RawQuery
RawToken RawWrite Rdlength ReMapAll ReadBits ReadBool ReadByte ReadFile ReadForm ReadFrom ReadFull
ReadInt8 ReadIntf ReadLine ReadLogs ReadOnly ReadRune ReadTime ReadUint ReaderAt Readlink Readonly Ready
RealSize Receiver RecvMsgs RecvTime Redacted RefCount Register Registry Released ReloKind RemoteIP Repeated
RepoName RepoTags Requests Requeues Required Requires ReserveN Reserved Resolver Resource Response ResultI
Retrieve Revision Rollback RootCert RootPair Rootless RouteAdd RouteDel RouteGet RtGenmsg RuleList Runnable
Runtimes RxErrors SCTPRead SameSite SaveSnap Scope_id ScrollUp SecretID Sections Security Segments Selector
SendFile SendMsgs SentTime Sequence ServeDNS ServeTLS Services SetALUOp SetBurst SetBytes SetEDNS0
SetEdns0 SetError SetField SetFlags SetFloat SetGauge SetIndex SetInt64 SetLabel SetLevel SetLimit SetNames SetO
SetRcode SetReply SetState SetValue Setxattr Severity ShimInfo Shstrndx Shutdown SignCert Signaled Simplify Size

Snapshot Snd_cwnd SockAddr SpanKind SpecText Spoofchk StackSys StartNow StatFile StatPath StateDir Statuses
StopShim StreamCh StreamID SubChans Subjects SubnetIP Subtract Supports SwapFree SysUsage TagImage TarUnta
Terminal TimeHard TimeSoft ToString ToUint32 ToUint64 TokenURL TrailCCC Transfer Traverse Truncate TrustKe
TxErrors TypeFlag Typeflag Uint8Var UintVarP UniqueId UnixConn UnixNano Unparsed UseStdin UserName UserT
Username ValidLft Validate Validity Verified Verifier Vertexes VisitAll WaitTime WalkPath Warningf Warnings
Wildcard WireType WithArgs WithName WithTime Writable WriteExt WriteInt WriteMsg WriteNil WriteRaw Write
XXX_Size/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd
getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd *v4.rules
*view.Row *xml.Attr *xml.Name *zk.Event *zk.State A dns:"a" AResource AcceptTCP AddCookie AddDigest
AddDriver AddGoFlag AddMember AddNested AddObject AddResult AddRtAttr AddSample AddSignal AddString
AddUint16 AddUint24 AddUint32 Addralign Addresses Aggregate Algorithm AllocSize Allocated Allocator AllowHT
Annotatef Anonymous ApplyDiff ApplyOpts AsSymbols AtomicPut Audiences AuthStyle Authority Authorize
AutoClose Available BaseDelay BasicAuth BeginTime Benchmark BindAddrs BitLength BitString BlinkSlow BlockSi
BodyStart BoolSlice BoolValue BoundAddr Broadcast BuildArgs BuildOnly BuildOpts BumpMajor BumpMinor
BumpPatch BusObject ByteOrder BytesHexP BytesSent CPUPeriod CPUShares CRTValues CacheFrom CacheKeys
CallSlice CanCgroup CanRemove CancelAll Cancelled CellAlign Character ChildrenW ChownOpts ClassList ClassTy
ClearData ClearFlag ClientCAs ClientTLS CloseConn CloseRead CloseSend Coalesced Collector Completed Configur
Conflicts ConnState Container Continued CountVarP CreateCRL CreatedAt CurryWith CurveName DBusError
DNSConfig DNSSuffix DataScope DebugData DecodeMsg DecoderOf Decrement DelayCorr DelayFrom DeleteAll
DeleteCAS DeleteLog DeviceIDs DeviceIdx DialCreds DidResume Discovery DiskUsage DotReader DownDelay
DportMask DriverCfg DstDriver DstMaster DstPrefix DualStack Duplicate DurationP DynString EachValue Eavesdrop
EmitInt32 EmitInt64 EnableICC EncapMode EncapType EncodeMsg EncoderOf EncryAlgo EndStream Endpoints
EraseLine ErrorCode EventChan EventFile EventLogs EventType Exception Exclusion Exclusive ExpiresAt Extension
ExtraData Extracted FastLeave FileLocks FillBytes FilterAdd FilterDel FindIndex FirstData FlagsUsed FlowBased
Forbidden ForceJoin FormValue Formatter FreeAlloc FreeBytes FreePageN FromBytes FromImage FromNames
FromSlash Frontends Ftruncate FullBytes FuncProto GTPPDPAdd GTPPDPDel GetAction GetBounds GetBucket
GetByBlob GetByName GetByType GetCached GetCallId GetConfig GetCustom GetDelete GetDetail GetDiffID
GetDigest GetDriver GetDryRun GetFields GetFilter GetFormat GetFrames GetGlobal GetHashes GetInitID GetInputs
GetIpPort GetJstype GetLabels GetLength GetLocale GetLogger GetMember GetMethod GetMetric GetMixins GetMk
GetMounts GetNodeID GetNumber GetObject GetOffset GetOldest GetOneofs GetPacked GetParent GetPlural
GetRanges GetRecord GetRemote GetResize GetResult GetRlimit GetSSHOpt GetScopes GetSecret GetSerial GetServ
GetShared GetSigned GetSocket GetSource GetSpanId GetSpread GetStatus GetStream GetString GetSyntax GetTarge
GetUint16 GetUint32 GetUint64 GetValues GetXattrs GitCommit GoVersion GobDecode GobEncode GroupName
GuestNice HTTPProxy HandleRPC Handshake HardState HasCaller HasParent HeapAlloc HeapInuse Heartbeat
HeightMin HelloTime Histogram HitLength HostsPath IDMapping IDToIndex IPAddress IPMaskVar IPNetVarP
IfAddrmsg IfInfomsg ImageName ImagePath InContext InOrStdin Inception Increment IndexType InitCheck InitLevel
Int16VarP Int32VarP Int64VarP IntSliceP Interface Intersect IpcMounts IsBuiltIn IsComplex IsDefault IsEnabled
IsExpired IsKeyword IsLearner IsLiteral IsManager IsMessage IsMounted IsOnCurve IsPacked3 IsPrivate IsProcess
IsRegular IsRunning IsSampled IsServing IsSuccess IsTimeout Isolation JoinGroup JoinToken KeepAlive KeepBytes
KeyPrefix KeyReader KeyUsages KeyWriter LGetxattr LSetxattr LabelKeys LastClock LastError LastIndex LatencyM
LazyPages LeafAlloc LeafInuse LeafPageN LeaseLife LightRedB LightRedF LinkAttrs LinkIndex LinkSetUp LinkStat
Linklayer ListFlags ListNodes ListTasks ListenTCP LoadCache LoadImage LocalAddr LocalNode Locator64 LockDel
LockIndex LogConfig LogFields LogFormat LogOutput Longitude LookupSRV LookupTXT MCacheSys MFASerial
MSAddress MakeSlice Manifests MarshalDB MarshalTo MatchRune MaxErrAge MaxTokens MaxTxRate MediaType
MessageID MiiStatus MinTxRate MmapFlags Modifiers MountOpts MountType Mountable MoveAfter MultiPath
Multiaddr Multicast MyAliases Namespace NeighList NetIPMask NetworkID NewSpanID NewStream NewTicker
NoService NodeCount NodeDeref NonceSize Normalize NotBefore NotifyMsg NumMethod NumQueued NumSubexp
OOMKilled OSVersion OldConfig OldSecret OnEvicted OpenStdin OperState Operation OrigError OutStream Overwr

PackEFace PadLength PageAlloc PageCount Paginator ParentKey ParseForm ParseGlob ParseName Partition PathCacl
Pdeathsig PeerEqual Phentsize PidsLimit Platforms Precision PrefixLen Prefixlen PrevExist PrevIndex PrevValue
PrintErrf ProcessID Processes ProjectID PromiseID ProtoSize Providers ProxyDial ProxyFunc PublicKey Publisher
PullImage PushFront PushImage PutObject PutUint16 PutUint32 PutUint64 QdiscList QdiscType Qualifier QuickSpan
RRsetUsed RaftState RatString RawIssuer RawQuotes Rcv_space ReadArray ReadBatch ReadBytes ReadFrame
ReadIndex ReadInt16 ReadInt32 ReadInt64 ReadMapCB ReadMsgIP ReadSlice ReadUint8 ReadValue ReadWrite
Rebalance Reconnect Recursive Reference Registers Remaining RemoteAPI RemoteCAs RemoveAll RemoveKey
RenewLock RequestID Reserved1 ResetBody ResizePty ResolveIP ResolveOp Resources Resumable Retryable
ReusePort RootBlock RootToken RoundTrip RouteList RouteType RunConfig RxDropped RxPackets SCTPWrite
Sa_family SandboxID Sandboxes ScanState SecretKey SecretOpt SeenFiles Selectors SendToTCP SendToUDP Sensiti
Separator Serialize ServeBlob ServeConn ServeHTTP ServiceID SessionID SetBuffer SetConfig SetDiffID SetEvents
SetExited SetFormat SetFrac64 SetFramer SetHeader SetIndent SetInitID SetIssuer SetJumpOp SetLabels SetLinger
SetNoLock SetNotify SetOutput SetParent SetPolicy SetPrefix SetSource SetStatus SetString SetTaskId SetUint64
SetUpdate SetUpload SetUserId SetupFunc SharedKey Shentsize Shorthand Signature SingleRef SkipClean SkipSpace
SlaveType SliceType SlotTuple SnapshotD Snapshots SoftState SortByPos SortFlags SourceMap SourceOpt SourceSA
Specified SpillTime SplitKeys SportMask SqrtRatio SrcDriver StartCond StartLine StartSpan StartTime StartedAt
Starttime StdinOnce StdinPipe StopQuery StreamDep StringLen StringOff StringVar Subrouter Subscribe Subsystem
Successes SwapLimit SwapNamed SwapTotal TLSConfig TLSUnique TLSVerify TagAndAdd TagFilter TagImages
TarStream TarWriter TargetIdx Templates Temporary Terminate TimeNanos Timestamp TlsConfig ToCDNSKEY
ToFloat32 ToFloat64 ToRFC3597 ToSubject TokenCode TokenText TokenType Transform Transport TrapCause
Truncated TxDropped TxPackets TypeCheck Uint16Var Uint32Var Uint64Var Uint8VarP UintSlice UlimitOpt Underli
UnixMicro UnixMilli UnlockKey Unmarshal UnsafeCap UnsafeGet UnsafeNew UnsafeSet UntarPath UpdateKEK
UpdateTTL UpdatedAt UsageFunc UseNumber UseStderr UseStdout UserAgent UserEvent ValidArgs ValueElem
ValueSize ValueType Versioned VisitExpr VivaldiCC VivaldiCE VolumesRW WaitGroup WaitIndex WaitWrite
WalkIPAMs WalkLinks WalkTable WantReply WarningFn Warningln WatchTree Watchable WillRetry WithError
WithExtra WithField WithLease WithState WithValue WorkerRef WrapError WriteBool WriteByte WriteData WriteFi
WriteFlag WriteInt8 WriteIntf WriteMore WriteOnce WritePing WritePong WriteRune WriteTime WriteToIP WriteTru
WriteUint XXX_Merge X__unused/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerd

Found
in path(s):
*
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *func()
*v1alpha1.EndpointSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker
*pkcs11._Ctype_CK_C_GetSlotInfo/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/docker
*pkcs11._Ctype_CK_C_GetSlotList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/docker *transport.userAgentRoundTripper *trustmanager.ErrPasswordInvalid
*v1.CephFSPersistentVolumeSource *v1.CinderPersistentVolumeSource *v1.MutatingWebhookConfiguration
*v1.SubjectAccessReviewInterface *v1alpha1.ClusterRoleBindingList *v1alpha1.EndpointSliceInterface
*v1alpha1.PriorityClassInterface *v1alpha1.SettingsV1alpha1Client *v1alpha1.VolumeAttachmentSource
*v1alpha1.VolumeAttachmentStatus *v1alpha3.ServiceConfigObjConfig *v1beta1.DaemonSetUpdateStrategy
*v1beta1.DeploymentConditionType
*v1beta1.ExtensionsV1beta1Client *v1beta1.NetworkPolicyEgressRule *v1beta1.NetworkingV1beta1Client
*v1beta1.PodDisruptionBudgetList *v1beta1.PodDisruptionBudgetSpec *v1beta1.PodManagementPolicyType

*v1beta1.ReplicaSetConditionType *v1beta1.RollingUpdateDeployment *v1beta1.SchedulingV1beta1Client *v1beta1.SelfSubjectAccessReview *v1beta1.StorageV1beta1Interface *v1beta1.SubjectAccessReviewSpec/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker"*func(*v1alpha1.EndpointSliceList)/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker#*func() *v1alpha1.EndpointSliceList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker-*func(string) v1alpha1.EndpointSliceInterface/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker0*func(v1.ListOptions) (*v1.EndpointsList, error)/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker:*func(v1.ListOptions) (*v1alpha1.EndpointSliceList, error)/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker=*func(string, v1.GetOptions) (*v1alpha1.EndpointSlice, error)/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker?*func(*v1alpha1.EndpointSlice) (*v1alpha1.EndpointSlice, error)/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerS*func(string, types.PatchType, []uint8, ...string) (*v1alpha1.EndpointSlice, error)/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerX*struct { Version int; P *big.Int; Q *big.Int; G *big.Int; Pub *big.Int; Priv *big.Int }

Found in path(s):
* *func(*v1alpha1.EndpointSlice)
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *uint64 *v1.Job *v1.Pod APIPath AbsPath Actions AddASN1 AddCert AddDate AddEnvf AddFlag AddFunc AddHook AddHost AddKeys AddMeta AddZone Address Aliases AsInt64 AsScale AuthURL BackOff Backoff BaseURL BatchV1 Binding BitSize Blksize BlockIO BoolVar Buckets BuildID ByIndex CMajFlt CMinFlt CPUPerc CPUTime C_Login CanAddr CapDr ChanDir Changed Changes Cluster Collect Command Comment Compare Compile Complex Conceal Configs Connec Consume Content Context Control Convert Cookies Counter Country Created Current CurveID DNSDone DNSName DebugFn DebugGC Debugln Decoder Decrypt Default Derived DestTag Destroy Details Devices DialTLS Disable D Display Elapsed EmitInt Enabled Encoded Encoder Encrypt EndTime ErrCode ErrorFn Errorln Example ExecIDs Ex Expired Expires Extract Fackets FatalFn Fatalln Feature Filters FindAll Float32 Float64 Flusher Fprintf GIDMaps Ga GetArgs GetBody GetBool GetByID GetCaps GetCert GetCode GetCols GetConn GetCopy GetData GetDest GetDon GetEnum GetExec GetExit GetFile GetFlow GetHead GetHelp GetHost GetInfo GetInit GetInt8 GetItem GetKey3 Ge GetLazy GetLine GetList GetLogs GetMeta GetMode GetName GetNode GetPath GetPeer GetPost GetRefs GetRole GetRoot GetRows GetSalt GetSlot GetSpan GetStat GetTags GetTask GetType GetUint GetUser GetWeak GetXRef GetYaml GotConn Handler HasNext HashAlg Headers HeapSys HomeDir HostKey Hrtimer IDPBES2 IPMaskP IPSli ISOWeek Ifindex ImageID Inblock Ingress InitPIN Inspect Int8Var IntVarP Inverse IpcMode IsBytes IsEmpty IsErro IsFloat IsInt64 IsTable IsTyped IsValid Iterate KdfName KdfOpts KeyData KeyFile Keytype Latency LazyLog Lead LikePtr LogName LogOpts LogPath Longest Lookups MakeMap Mallocs Manager MantExp MapKeys Marshal Matc MaxBits MemPerc Message Methods Metrics Migrate MinPrec MinTime Minutes Mirrors Missing ModSqrt ModTim NamePos Network NewDesc NoCache NoProxy NoTrunc NonUTF8 NumKeys Objects Observe OldNode OldTask OnBuild OnError OpenRaw Options OrigErr Oublock Outputs PanicFn Panicln ParseFS PauseNs Payload Pending Pe PidMode PkgPath Pkttype Plugins Pointer PostRun PreRunE PrintFn Println Private Process Publish Queries RLocke RLocker RUnlock RWMutex RawPath RawRead Rcv_mss Rcv_rtt ReadAny ReadBit ReadDir ReadInt ReadMsg Rea ReadOne ReadVal Readdir RecvMsg RefName RefType Referer Release Replace Request Reserve Resolve Restore R RootCAs RoundUp Running ScaleBy Schemes Seconds Secrets SendMsg Service Session SetArgs SetBits SetBool S

SetFrac SetKind SetMeta SetMode SetName SetPrec SetTree SetType SetUint Setctty Setpgid Setting ShmSize Shuff
Signbit Signers Snd_mss Sockets SoftIRQ Sprintf Started StdTime Stopped Storage Streams StringP SubConn Subjec
Success Syscall TCPInfo TLSData TLSInfo TLSPath TagConn TagName Targets Tasklet Timeout ToArray ToInput
ToInt32 ToInt64 ToNames ToProto TraceFn Traceln Trailer TryLock TryRecv TrySend UIDMaps URLHost URLPat
UTCTime UTSMode Uint16P Uint32P Uint64P UintVar Ulimits Unacked Unknown Unwrite UseLine Verbose Versi
Volumes Warning WasIdle Weekday Witness WrapKey Wrapped WriteAt WriteTo Written X__pad0 YearDay Yellow
YellowF/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *v1.pods
Absolute AddBytes AddError AddFloat AddFuncs AddMount AddPaths AddUint8 AddValue Allocate AsObject Audi
AuthInfo AuthType BaseRole Binomial BoolVarP Boundary Buffered BytesHex CPUQuota CSINodes C_Digest
C_Logout C_SetPIN C_Verify Ca_state CalledAs CancelAt CapNames CastType CertData CertFile CertType CheckT
Checksum ChownOpt ClientID CloseAll CmpInt64 Commands Comments Complete Compress ConfigID Conflict
ConnPool Contains Contents Continue CopyFrom CopyList CopyPipe CoreDump CountVar Creation CronJobs Cross
DNSNames DNSStart DataLoss DataSize Deadline DeepCopy DefValue DefaultB DefaultF Describe DevMajor
DevMinor Devmajor Devminor DiffCopy Digester Disabled Document Duration ElseList EmitBool EnableGC Encircl
Endpoint ErrorLog EventNum Examples Exchange Excludes ExecuteC ExitCode ExitFunc Expanded Expected FTPPr
FailFast Failures Familiar Families FieldMap FileInfo FileLine FileName FilePath Filename Finalize Float32P Float64
Flowinfo FormFile FormName Fprintln Fragment Function GetAllOf GetAttrs GetBegin GetBuild GetByKey GetCach
GetCount GetCtype GetEmail GetEntry GetError GetField GetFinal GetGauge GetGroup GetIPNet GetInUse GetIndex
GetInfos GetInput GetInt16 GetInt32 GetInt64 GetItems GetLabel GetLevel GetLinks GetMajor GetMinor GetMkdir
GetMount GetNanos GetOneof GetOwner GetPatch GetPaths GetRange GetRealm GetRoute GetScale GetSize_ GetSi
GetSlice GetStart GetState GetStore GetTitle GetToken GetTotal GetUint8 GetValue GoString GroupAdd GroupIds
HasAlias HasFired HasFlags HasSwarm HashFunc HeapIdle HelpFunc Hijacker HostOnly HostPort Hostname HttpOn
IDPBKDF2 IPNetVar IPSliceP IdleTime ImageTag InUserNS Indirect Inherits InitRoot Insecure Int16Var Int32Var
Int64Var Int8VarP IntSlice IntValue Internal IsAlways IsAssign IsBridge IsClient IsClosed IsFormat IsHyperV IsLoad
IsNormal IsPacked IsProto3 IsPseudo IsScalar IsSecure IsStream IsString IsUint64 JSONName KeyBytes KeyUsage
LengthOf LinkName Linkname ListFunc ListKeys ListMeta ListOpts Listener LoadJSON Locality Location LogEvent
LogLevel LookupIP LookupMX LookupNS MSpanSys MagentaB MagentaF Manifest MapIndex MapRange MarkDea
MatchErr MaxDepth MemTotal MemUsage Metadata Modified MulRange Multiply Negative Networks NewGauge
NewRoute NewTimer NextLine NextPart NoLchown NodeAddr NodeList NodeType NotAfter NotFound NotifyCb
Nsignals NumField NumberGT NumberLT Official OnDelete OnStatus OnUpdate Operator Optional OrigName Other
Overhead Overline ParseAll ParseErr Password Patterns PauseEnd PeerAddr Platform Position Possible PostForm
PostRunE Pow22523 PreferGo PrintErr Priority Protocol Province ProxyEnv ProxyGet PushBack PusherID Question
QuoExact QuoRound RGB3BitB RGB3BitF RGB8BitB RGB8BitF RandBool RawQuery RawWrite ReadBits ReadBo
ReadByte ReadFile ReadForm ReadFrom ReadInt8 ReadLine ReadRune ReadUint ReadySCs RealSize RecvTime
Redacted Register Registry Repeated Replicas RepoInfo RepoName RepoTags Requests Required ReserveN Reserved
Resolver Resource Response Restrict RoleName Rollback RootPair RootRole Runnable Runtimes SameSite Scope_id
ScrollUp SecretID Security SentTime ServeTLS ServerOK Services SetBurst SetBytes SetEDNS0 SetError SetFlags
SetFloat SetIndex SetInt64 SetLevel SetLimit SetMilli SetMulti SetScale SetValue Severity Shutdown SignCert SignI
SignRoot Signaled Simplify Snapshot Snd_cwnd SortKeys SpewKeys Sprintln StackAPI StackSys Statuses StreamID
SubChans Subjects Subtract Supports SysUsage TaskList TaskLogs Template Throttle ToSigned ToString ToUint32
ToUint64 TokenURL TrailCCC Traverse Truncate TryRLock TypeFlag TypeMeta Typeflag Uint8Var UintVarP
UnixNano Unparsed Unscaled UserName UserTime Username Validate Validity Verified Verifier Vertexes VisitAll
Warningf Warnings WireType WithArgs WithKind WithTime WriteInt WriteMsg WriteNil WriteOne WriteRaw Write
XXX_Size/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker
getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *v1.roles
*zip.File AResource AcceptTCP AddCookie AddGoFlag AddObject AddSchema AddTarget AddUint16 AddUint24
AddUint32 Addresses Algorithm AllowHTTP Anonymous AuthStyle Authority Available BasicAuth BeginTime
BitLength BitString BlinkSlow BlockRead BlockSize BoolSlice BoundAddr Broadcast BuildArgs BuildOnly BytesHex

BytesSent CPUPeriod CPUShares CRTValues C_Decrypt C_Encrypt C_GetInfo C_InitPIN C_WrapKey CacheFrom CacheType CallSlice Cancelled CertBytes ChownOpts ClientCAs CloseConn CloseRead CloseSend Coalesced Comple ConfigDir ConnState Container Continued Converter CountVarP CreateCRL CreatedAt CreatedBy CurryWith DebugD DecoderOf DeepEqual DelayFrom DeriveKey DeviceIDs DialCreds DidResume DigestKey Discovery DiskUsage DotReader DualStack DurationP EmitInt32 EmitInt64 EncoderOf EncryAlgo EndStream Endpoints EqualTime EraseLi ErrStatus ErrorCode EventLogs Evictions Exclusion Exclusive Extension FieldsMap FillBytes FindIndex Forbidden FormValue Formatter FoundKeys FromBytes FromNames Ftruncate FullBytes GetAction GetBucket GetByName GetCached GetCallId GetConfig GetCustom GetDelete GetDetail GetDigest GetFields GetFilter GetFormat GetFrames GetGlobal GetInputs GetIpPort GetJstype GetLabels GetLength GetLocale GetLogger GetMethod GetMetric GetMixin GetMkfile GetMounts GetNodeID GetNumber GetObject GetOffset GetOneofs GetPacked GetParent GetPrefix GetRanges GetRecord GetRemote GetResize GetResult GetRlimit GetSSHOpt GetSchema GetScopes GetSecret GetServer GetShared GetSigned GetSocket GetSource GetSpread GetStatus GetStream GetString GetSuffix GetSyntax GetTarget GetUint16 GetUint32 GetUint64 GetValues GetXattrs GitCommit GoVersion GobDecode GobEncode GroupKind GroupName GuestNice HTTPProxy HandleRPC Handshake HasCaller HasParent HasSynced HeapAlloc HeapInuse Histogram HostsPath IPAddress IPMaskVar IPNetVarP ImageList ImageLoad ImagePull ImagePush ImageSave InOrStdin Increment IndexKeys Ingresses InitLevel InitToken InlineMap Int16VarP Int32VarP Int64VarP IntSliceP Intensity Interface Interpret IsComplex IsDefault IsInvalid IsKeyword IsLiteral IsMessage IsOnCurve IsPack IsPrivate IsProcess IsRegular IsTimeout Isolation JoinToken KeepAlive KeyUsages LastError LatencyMu LightRedB LightRedF ListFiles ListRoles LocalAddr LogConfig LogFields LookupEnv LookupSRV LookupTXT MCacheSys MakeSlice Manifests MarshalTo MatchRune MaxErrAge MaxPinLen MaxTokens Mechanism MediaType MinPinLen Modifiers MountBlob MoveAfter Multiaddr MustBeOfA Namespace NetworkID NetworkRx NetworkTx NewStream NewTicker NilChance NoResolve NonceSize NotBefore NumMethod NumSubexp NumberGTE NumberLTE NumberNot OOMKilled OSVersion OldConfig OldSecret OmitEmpty OpenStdin Overwrite PackEFace PadLength Parameter ParseForm ParseGlob ParseName Pdeathsig PidsLimit Platforms PluginSet Precision PrefixLen PrintErrf ProjectID PromiseID ProtoSize ProtoTime ProxyDial ProxyFunc PublicKey PushFront PutUint16 PutUint32 PutUint64 QuickSpan RatString RawConfig RawIssuer Rcv_space ReadArray ReadBytes ReadFrame ReadInt16 ReadInt32 ReadInt64 ReadMapCB ReadMsgIP ReadSlice ReadUint8 Reference RemoteRef RemoveAll RemoveKey Resources RotateKey RoundTrip SandboxID ScanState SeenFiles Sensitive ServeBlob ServeConn ServeHTTP ServerURL SessionID SetBuffer SetFormat SetFrac64 SetHeader SetIndent SetLabels SetLinger SetLogger SetNoLock SetOutput SetPrefix SetScaled SetString SetUint64 SharedKey Shorthand SignFinal Signature SignedTag SkipClean SkipSpace SortFlags SourceMap Specified SqrtRatio StarCount StartCond StartLine StartSpan StartTime StartedAt Starttime StdinOnce StdinPipe StorageV1 StreamDep StringGTE StringLTE StringVar Subrouter Successes SwapLimit SwarmIn SwarmJoin TLSConfig TLSStatus TLSUnique TLSVerify TarStream TarWriter Templates Temporary Threshold Timestamp ToFloat32 ToFloat64 ToNewRole ToRawInfo ToService TokenText TokenType Transform Transport TrapCause Truncated TryAccept TypeCheck Uint16Var Uint32Var Uint64Var Uint8VarP UintSlice Underline UnixMi UnixMilli UnlockKey Unmarshal UnsafeCap UnsafeGet UnsafeNew UnsafeSet UnwrapKey UpdatedAt UsageFunc UseNumber UserAgent ValidArgs ValueElem ValueType Versioned WaitWrite WarningFn Warningln WatchFunc WithError WithExtra WithField WithState WithValue WrapError WriteBool WriteByte WriteData WriteInt8 WriteMor WriteOnce WritePing WriteRune WriteToIP WriteTrue WriteUint XXX_Merge X__unused/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker

Found
in path(s):
* When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processedIf the Labels of a ReplicaSet are empty, they are defaulted to be the same as the Pod(s) that the ReplicaSet manages. Standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadataExternalMetricSource indicates how to scale on a metric not associated

with any Kubernetes object (for example length of queue in cloud messaging service, or QPS from loadbalancer running outside of cluster). Exactly one "target" type should be set.APIVersion defines the version of this resource that this field set applies to. The format is "group/version" just
like the top-level APIVersion field. It is necessary to track the version of a field set because it cannot be automatically converted.Template is the object that describes the pod that will be created if insufficient replicas are detected. This takes precedence over a TemplateRef. More info:
https://kubernetes.io/docs/concepts/workloads/controllers/replicationcontroller#pod-templateIf specified, the port on the given protocol. This can either be a numerical or named port on a pod. If this field is not provided, this matches all port names and numbers. If present, only traffic on the specified protocol AND port will be matched.externalName is the external reference that kubedns or equivalent will return as a CNAME record for this service. No proxying will be involved. Must be a valid RFC-1123 hostname (https://tools.ietf.org/html/rfc1123) and requires Type to be ExternalName.Replicas is the number of desired replicas. This is a pointer to distinguish between explicit zero and unspecified.
Defaults to 1. More info: https://kubernetes.io/docs/concepts/workloads/controllers/replicationcontroller#what-is-a-replicationcontrollerallowedCapabilities is a list of capabilities that can be requested to add to the container. Capabilities in this field may be added at the pod author's discretion. You must not list a capability in both allowedCapabilities and requiredDropCapabilities.Replicas is the number of desired replicas. This is a pointer to distinguish between explicit zero and unspecified. Defaults to 1. More info:
https://kubernetes.io/docs/concepts/workloads/controllers/replicationcontroller/#what-is-a-replicationcontrollerrevisionHistoryLimit is the maximum number of revisions that will be maintained in the StatefulSet's revision history. The revision history consists of all revisions not represented by a currently applied StatefulSetSpec version. The default value is 10.The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be
set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container.PreemptionPolicy is the Policy for preempting pods with lower priority. One of Never, PreemptLowerPriority. Defaults to PreemptLowerPriority if unset. This field is alpha-level and is only honored by servers that enable the NonPreemptingPriority feature.Must be empty before the object is deleted from the registry. Each entry is an identifier for the responsible component that will remove the entry from the list. If the deletionTimestamp of the object is non-nil, entries in this list can only be removed.allowedRuntimeClassNames is a whitelist of RuntimeClass names that may be specified on a pod. A value of "*" means that any RuntimeClass name is allowed, and must be the only item in the list. An empty list requires the RuntimeClassName field to be unset.MutatingWebhookConfiguration describes the configuration of and admission webhook
that accept or reject and may change the object. Deprecated in v1.16, planned for removal in v1.19. Use admissionregistration.k8s.io/v1 MutatingWebhookConfiguration instead.singularName is the singular name of the resource. This allows clients to handle plural and singular opaquely. The singularName is more correct for reporting status on a single item and both singular and plural are allowed from the kubectl CLI interface.matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.The name of the cluster which the object belongs to. This is used to distinguish resources with same name and namespace in different clusters. This field is not set anywhere right now and apiserver is going to ignore it if set in create or update request.Active reports the checkpointed config the node is actively
using. Active will represent either the current version of the Assigned config, or the current LastKnownGood config, depending on whether attempting to use the Assigned config results in an error.
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr
getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr *uintptr *url.URL

Absolute AddBytes AddUint8 AddValue AuthInfo AuthType Binomial Buffered ByNumber BytesPtr Ca_state CacheD
CapNames CastType Category Commands Compiled Compress ConnPool Constant Contains CopyFrom CopyList
CopyPipe CoreDump CountFds DNSNames DNSStart Deadline DefValue DevMajor DevMinor Devmajor Devminor
Digester DoneFunc Duration ElseList EncodeTo Encoding Endpoint EventNum ExitCode ExitFunc ExitIdle ExitTime
Expanded Expected Exporter Extendee FailFast Familiar Families FieldMap FileInfo FileLine FileName FilePath File
Filename FindType Flowinfo Footnote FormFile FormName Fragment FullName Function GetArray GetBegin GetCty
GetEntry GetField GetImage GetLabel GetLevel GetLinks GetLinux GetNanos GetOwner GetPaths GetStart GetState
GetUsage GetValue GoString GroupIds HasFired HashFunc HelpName HideHelp Hostname HttpOnly IdleTime InitJS
Instance Int32Ptr Int64Ptr Int64Var IntSlice IsAssign IsClient IsFenced IsHeader IsNormal IsPacked IsPinned IsProto3
IsPseudo IsPublic IsScalar IsStream IsString IsUint64 JSONName KeyUsage KindFlag LDConfig LinkData LinkName
Linkname ListData ListPids Listener Locality Location LookupIP LookupMX LookupNS MapIndex MapRange MapV
MarkDead MaxDelay Messages Metadata MulRange Multiply Networks NewChild NewField NewValue NextPart
NodeType NotAfter Nsignals NumEnums NumField NumFiles NumFlags Optional OrigName OutTable Overhead
Password PeerAddr Platform Position PostForm Pow22523 PreferGo Priority Protocol Province PushBack Question
RawQuery RawWrite ReadByte ReadForm ReadFrom ReadLine ReadRune ReaderAt ReadySCs RealSize RecvTime
Redacted Register Repeated RepoTags Required Requires Resolver Response Revision RunCount SPIFFEID SameSite
Scope_id Sections Security SentTime Sequence Services SetALUOp SetBytes SetEDNS0 SetError SetFlags SetFloat
SetInt64 SetLabel SetLevel SetValue Severity Shstrndx Shutdown Signaled Simplify SizeType Snapshot Snd_cwnd
StreamID SubChans Subjects Subtract SysUsage TableLog Terminal TextName TrailCCC Truncate TypeFlag TypeNa
Typeflag UnixConn UnixNano Unparsed UseBlock UseProxy UserName UserTime Username Validate Verified Verif
VisitAll Warningf WireType WithArgs WithTime WriteInt WriteMsg
XXX_Size/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr
getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/runcruntime.convTslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
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tgz/docker/runcsync.(*Pool).getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
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tgz/docker/runcgithub.com/opencontainers/runc/vendor/github.com/urfave/cli.(*Context).GlobalIntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/runctype..eq.github.com/opencontainers/runc/vendor/github.com/urfave/cli.IntSliceFlag/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
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tgz/docker/runcgithub.com/opencontainers/runc/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.dwrap.3/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/runcgithub.com/opencontainers/runc/libcontainer/cgroups/systemd.(*unifiedManager).getSliceFull/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
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tgz/docker/runcgithub.com/opencontainers/runc/vendor/github.com/urfave/cli.(*Context).IntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/runcgithub.com/opencontainers/runc/vendor/github.com/urfave/cli.(*Context).GlobalIntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/runctype..eq.github.com/opencontainers/runc/vendor/github.com/urfave/cli.IntSliceFlag/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/runcruntime.convTslice.stkobj/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
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tgz/docker/runcgithub.com/opencontainers/runc/libcontainer/cgroups/systemd.(*unifiedManager).getSliceFull.stkobj/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
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tgz/docker/runcgithub.com/opencontainers/runc/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow.stkobj/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/runcgo.itab.*github.com/opencontainers/runc/vendor/github.com/urfave/cli.IntSlice,flag.Value/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/runcgo.itab.github.com/opencontainers/runc/vendor/github.com/urfave/cli.IntSliceFlag,github.com/opencontainers/runc/vendor/github.com/urfave/cli.Flag/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/runcgo.itab.sort.IntSlice,sort.Interface

Found
in path(s):
* (?i)^(?:<[A-Za-z][A-Za-z0-9-]*(?:\s+[a-zA-Z_:][a-zA-Z0-9:._-]*(?:\s*=\s*(?:[^'"=<>`\x00-\x20]+|'[^']*'|"[^"]*"))?)*\s*/?>|</[A-Za-z][A-Za-z0-9-]*\s*[>]|<!---->|<!--(?:-?[^>-])(?:-?[^-])*-->|[<][?].*?[?][>]|<![A-Z]+\s+[^>]*>|<!\[CDATA\[[\s\S]*?\]\]>)

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

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd

Found in path(s):
* WriteUint8
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd
readPacketsLeft/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd
decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd
writePacketsLeft/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd
*timeseries.tsLevel *tls.ClientAuthType/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd *pflag.intSliceValue *pkcs7.EncryptedData *plugin.EventDisable
*plugin.Registration/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd
*pflag.uintSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd
*[]*timeseries.tsLevel/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd

Found in path(s):
* msg:"time" TimestampFormat TruncationToken TxAbortedErrors TxCarrierErrors UnknownResource UnmarshalBinary UnmarshalJSONPB UnmarshalStream UnmountIpcMount UnregisterBuild UnsafeMakeSlice UnsignedPayload UpdateAddresses UpdateContainer UpdateResources UpdateTLSConfig UserOnCloseWait ValidPrincipals VerifySignature VersionTemplate VisitInt64Value VivaldiErrorMax Volume json:"-" Wait100Continue WalkIDsByResult WithConstLabels WithCredentials WithImageConfig WithLabelValues WriteArrayStart WriteBufferSize WriteComplex128 WriteDataPadded WriteEmptyArray WriteHostConfig WriteLogEntries WriteMapStrIntf X509Certificate XXX_MessageName XfrmPolicyFlush XfrmStateUpdate
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker*struct { F uintptr; done chan struct {}; ctx context.Context; pr *progress.progressReader }
AggregationRuleLjson:"aggregationRule,omitempty" protobuf:"bytes,3,opt,name=aggregationRule"
ConfigMapKeyRefLjson:"configMapKeyRef,omitempty" protobuf:"bytes,3,opt,name=configMapKeyRef"
CurrentRevisionLjson:"currentRevision,omitempty" protobuf:"bytes,6,opt,name=currentRevision"
DaemonEndpointsLjson:"daemonEndpoints,omitempty" protobuf:"bytes,6,opt,name=daemonEndpoints"

Found in path(s):
* SourceIndexLprotobuf:"varint,1,opt,name=sourceIndex,proto3" json:"sourceIndex,omitempty"
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerr*struct { F uintptr; requestOver chan struct {}; ht *transport.serverHandlerTransport; cancel context.CancelFunc }

Found in path(s):
* VXLANUDPPortOprotobuf:"varint,13,opt,name=VXLANUDPPort,proto3" json:"VXLANUDPPort,omitempty"
VolumeNamespaceLjson:"volumeNamespace,omitempty" protobuf:"bytes,2,opt,name=volumeNamespace"
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd

Found in path(s):
* XXX_Marshal
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
*channelz.channel *cipher.BlockMode *cli.IntSliceFlag
*cli.RequiredFlag/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
*unix.nopResolver *utilities.OpCode *v1.AttachRequest *v1.ConfigMapList *v1.ContainerPort *v1.CreateOptions
*v1.DeleteOptions *v1.EndpointsList *v1.EnvFromSource *v1.FinalizerName *v1.GroupResource
*v1.HTTPGetAction *v1.HugepageLimit *v1.InternalEvent *v1.LabelSelector *v1.ListInterface *v1.NamespaceList
*v1.NamespaceMode *v1.NamespaceSpec *v1.NetworkConfig *v1.NodeCondition *v1.NodeResources
*v1.PodLogOptions *v1.Preconditions *v1.ProcMountType *v1.ResourceQuota *v1.ResourceSpans *v1.RestartPolicy
*v1.RuntimeConfig *v1.RuntimeStatus *v1.SELinuxOption *v1.ScopeSelector *v1.ServiceStatus *v1.Span_SpanKind
*v1.StatusDetails *v1.StatusRequest *v1.StorageMedium
*v1.UpdateOptions/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
*timeseries.tsLevel *tls.ClientAuthType/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/containerd *pflag.intSliceValue *pkcs11.ObjectHandle
*pkcs11.Pkcs11Config/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/containerd *pflag.uintSliceValue
*pkcs11.Pkcs11KeyFile/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/containerd *[]*timeseries.tsLevel/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-
17-tgz/docker/containerd *func(*v1.EndpointsList)/opt/cola/permits/2638087389_1758660464.1729765/0/docker-
20-10-17-tgz/docker/containerd *func()
*v1.EndpointsList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd

Found in path(s):
*
yaml:"uri" VerifiedChains VerifyHostname VersionService WalkStatusRefs WithTraceFlags WithTraceState
WriteObjectEnd WriteRSTStream XXX_OneofFuncs XmitHashPolicy ZlibWriterPool
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-
tgz/docker/dockerdalpha;amacr;amalg;angle;angrt;angst;anyoneaogon;arcnetaring;asymp;athenaatildeattachaustinau
thoravx512awint;aws-cnbackupbanachbanzaibartikbasic
bcong;bdquo;bearerbeaverbeforebepsi;bhabhabinaryblank;blk12;blk14;blk34;blkio.blobs/block;boltdbborderboringb
oumanboxDL;boxDR;boxDl;boxDr;boxHD;boxHU;boxHd;boxHu;boxUL;boxUR;boxUl;boxUr;boxVH;boxVL;box
VR;boxVh;boxVl;boxVr;boxdL;boxdR;boxdl;boxdr;boxhD;boxhU;boxhd;boxhu;boxuL;boxuR;boxul;boxur;boxvH
;boxvL;boxvR;boxvh;boxvl;boxvr;branchbreve;bridgebrvbarbsemi;bsime;bsolb;bumpE;bumpe;bundleca.pemcache-
cache.cachedcalloccannoncapgetcapsetcaret;caron;carsoncarverccaps;ccedilccirc;ccups;cedil;cgroupchan<-
check;chrootclarkecleverclientclone3closedcloud9clubs;coldencolon;comma;commitconfigconsulcookiecoordscpus
etcramfscrankycrarr;createcross;cslip6csube;csupe;ctdot;ctrl-@ctrl-[ctrl-\ctrl-]ctrl-^ctrl-_ctrl-actrl-bctrl-cctrl-dctrl-
ectrl-fctrl-gctrl-hctrl-ictrl-jctrl-kctrl-lctrl-mctrl-nctrl-octrl-pctrl-qctrl-rctrl-sctrl-tctrl-uctrl-vctrl-wctrl-xctrl-yctrl-
zcuepr;cuesc;cupor;currancurrencustomcuvee;cuwed;cwint;daemondaggerdarwindashv;db.tmpdblac;ddarr;definedel

etedelim(delta;detachdevicedevptsdharl;dharr;dhawandiams;diffiedigestdir
indisin;dividedockerdomaindoteq;doubledreamydriverdtdot;dtrif;duarr;duhar;eDDot;eacuteeasleyecirc;econetedison
eetherefDot;efenceegraveelatedemacr;empty empty;enableengineeogon;eplus;epsiv;eqsim;equiv;erDot;erarr;errno
errorsescapeesdot;euclideventsexec:
execIDexecveexist;existsexitedexpectexportexposeexpreffailedfamilyfcfb10fcfb11fcfb12fchdirfchmodfchownferma
tfflig;field
filig;filterfjlig;fllig;fltns;folderfollowforallforkv;fownerfrac12frac14frac34frasl;frostyfrown;frozenfsetidfsopenfspic
kgaloisgamma;gcirc;gcloudgescc;getACLgetcpugetcwdgetentgetgidgetpidgetsidgettidgetuidgiftedgimel;git://globalg
neqq;gnsim;golickgophergossipgrave;gretapgrpclbgsime;gsiml;gtcir;gtdot;hangupharrw;hcirc;headerhealthheartshei
ghthelliphiddenhoarr;hooverhopperhungryhyperviacuteicirc;iexcl;ifNameignoreigraveiif
%diif %siiint;iiota;ijlig;imacr;image;imath;imped;importindex-infin;ingestinlineinp-
%dinuse_iogon;iopermip+netip/ddpip6greip6tnlipMaskiprod;ipvlaniquestisinE;isins;isinv;iukcy;jcirc;jepsenjmath;jo
liotjovialjsCtx(jukcy;kappa;kellerkeplerkernelkilledlAarr;lBarr;label!label:label=labelslamarrlambdalangd;laquo;larr
b;lates;latestlayer-layer2layerslbarr;lbbrk;lbrke;lceil;lchmodlchownldquo;leaderleakedleakeyleave

Found in path(s):
* [0m [6n] =]
n=^%s$_sum_tagacE;acctacd;acy;addraddsafr;allgallpaltsamp;and;ang;anonapE;ape;aposarchasn1ast;aufsaumlautha
vx2ax25basebcy;beetbellbenzbetabfr;bindbitsblobbmi1bmi2bne;bodybohrboldbondboolborgbosebot;boydbuckbullb
usybytecallcap
cap;cas1cas2cas3cas4cas5cas6caseceilcentcerfcfr;chanchi;cir;circcitecodecolscompcongcoolcopycorecoricpu.cpuscr
aycroncup;dArrdarrdatadatedbusdcy;deaddef=deg;dfr;dialdie;diffdiskdiv;dlcidonedot;downdropdup2dup3eEpPecho
ecy;efr;egs;elf.ell;els;elseemspeng;enspepicermseta;etagetcdeth;eumleuroexecexitexprf2fsfailfastfcalfcplfcppfcy;fdd
iffr;fifofilefipsfnofforkformfradfreefromftpsfuncfusegEl;gRPCgactgap;gcclgcy;gel;gelfgeq;ges;gfr;ggg;git@glE;gla;
glj;gluegnE;gne;goodgotogpfsgrpcgziphArrharrhashhdlcheadheaphelphfr;hfschighhosthourhrefhtmlhttpi386icmpico
nicy;id==idleiff;ifr;igmpinfoinitint8int;intsiopliotaipipipv4ipv6irdaisinitabiumljangjcy;jfr;joinjsonjumpkarekcmpkcy
;keenkernkey:keyskfr;killkindkmemlArrlEg;langlap;lapblarrlastlat;lcy;leafleftleg;leq;les;lfr;lgE;linklistlnE;lne;loadl
ogsloopploz;lrm;lsh;macrmailmandmap;map[mcy;mdnsmemsmetamfr;mho;mid;mmapmobymodempolmsgsnGg;nLl;
namenap;nashnbspncy;newsnextnfr;ngE;nge;ngt;nicenis;niv;nlE;nle;nlt;nodenonenot;notenpr;nsc;nsubnullnum;ocy;
ofr;ogt;ohm;oidcolt;openord;ordfordmorv;oumlpar;paraparepartpasspathpcy;perppfr;phi;pidspikepingpipepiv;pollpo
p3portpostprE;pre;prioprocprodprofproppsi;pullpushqfr;qldbquitquotrArrraftrangrarrrcy;rdmareadrealrecvreg;repore
sprfr;rho;riderlm;rolerootroserowsrpadrseqrsh;runcs390s3v4sahasavesbrkscE;sce;sctpscy;sdotsectseeksendsentserfsf
r;shawshotshy;sim;sinksizeskipslabslipslotslowsmt;smtpsnapsocksol;sortspanspecsqu;sse2sse3statstepstmtstopsub;s
ubesuidsum;sup1sup2sup3sup;supesynctag:tagstailtar-tar
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd

Found in path(s):
* XfrmStateGet
* requestsLock
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim-runc-v2
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd

Found in path(s):
* formatSlice
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *tuf.repoBuilder *types.BoolValue *types.Container *types.DiskUsage *types.EnumValue *types.FieldMask *types.HostsList *types.ListValue *types.NullValue *types.PatchType *types.PidsStats *types.Placement *types.PluginEnv *types.Resources *types.StatsJSON *types.Timestamp *types.UnitBytes *unicode.Range16 *unicode.Range32 *url.EscapeError/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *utils.pbkdf2Encs *v1.BatchV1Client *v1.ConfigMapList *v1.ContainerPort *v1.CreateOptions *v1.DaemonSetList *v1.DaemonSetSpec *v1.DeleteOptions *v1.EndpointsList *v1.EnvFromSource *v1.ExportOptions *v1.FinalizerName *v1.GroupResource *v1.HTTPGetAction *v1.InternalEvent *v1.LabelSelector *v1.ListInterface *v1.NamedAuthInfo *v1.NamespaceList *v1.NamespaceSpec *v1.NetworkPolicy *v1.NodeCondition *v1.NodeInterface *v1.NodeResources *v1.OperationType *v1.PodLogOptions *v1.Preconditions *v1.PriorityClass *v1.ProcMountType *v1.ResourceQuota *v1.RestartPolicy *v1.RoleInterface *v1.ScopeSelector *v1.ServiceStatus *v1.StatusDetails *v1.StorageMedium *v1.UpdateOptions *v1alpha1.RoleRef *v1alpha1.Subject *v1alpha1.Webhook *v1beta1.Eviction *v1beta1.KeyUsage *v1beta1.Overhead *v1beta1.RoleList *v1beta1.UserInfo/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *timeseries.tsLevel *tls.ClientAuthType/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *pflag.intSliceValue *pkcs11.ObjectHandle/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *pflag.uintSliceValue *pkcs11.MechanismInfo *pkcs11.SessionHandle *pkix.CertificateList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *[]*timeseries.tsLevel/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *swarm.ipNetSliceValue *syscall.SockaddrInet4 *syscall.SockaddrInet6/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *v1.controllerRevisions *v1alpha1.AuditSinkList *v1alpha1.AuditSinkSpec *v1alpha1.EndpointSlice *v1alpha1.PodPresetList *v1alpha1.PodPresetSpec *v1alpha1.PriorityClass *v1alpha1.RoleInterface *v1alpha3.RestartPolicy *v1alpha3.ServiceConfig *v1beta1.DeploymentList *v1beta1.DeploymentSpec *v1beta1.EventInterface *v1beta1.ExecCredential *v1beta1.IngressBackend *v1beta1.LeaseInterface *v1beta1.ReplicaSetList *v1beta1.ReplicaSetSpec *v1beta1.RollbackConfig *v1beta1.StackInterface/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *func(*v1.EndpointsList)/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *v1alpha1.endpointSlices/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *[]v1alpha1.EndpointSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *func() *v1.EndpointsList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *v1.selfSubjectRulesReviews *v1alpha1.EndpointSliceList *v1alpha1.PriorityClassList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker

Found in path(s):
* ssh:"rest" RestoreTerminal RetryThrottling RollbackMonitor SecurityOptions SecurityVersion ServerHandshake ServerResources ServiceAccounts SetGenerateName SetHelpTemplate SetInterspersed SetMkfileOption SetPluginConfig SetReadDeadline SetRefreshToken SetReportCaller SetSendCompress ShorthandLookup

SignRecoverInit SlotDescription SourceLocations StorageV1alpha1 StringArrayVarP StringSliceVarP StringToIntVarP StringToStringP SupportedCurves SupportedPoints SupportedProtos TLSClientConfig TimestampFormat ToRestartPolicy TransportConfig TryRLockContext TypeCastMapping UnknownResource UnmarshalBinary UnmarshalJSONPB UnsafeMakeSlice UpdateAddresses UpdateOnFailure UpdateTimestamp ValidPrincipals VersionTemplate VersionedParams Wait100Continue WithConstLabels WithConversions WithImageConfig WithLabelValues WriteArrayStart WriteBufferSize WriteDataPadded WriteEmptyArray XXX_MessageName
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr *sha512.digest *snapshots.Opt *sort.IntSlice *specs.Process *specs.Solaris *specs.VMImage *specs.Windows/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr *zstd.fseState AbsolutePrefix AddASN1Boolean AddASN1UTCTime AddMatchSignal AddNetworkList AllAdditionals AllAuthorities AppendFullName ApplyWithError AuthorityKeyId AuthorizerOpts BalancerConfig BoundaryBefore BreakWithError CallsSucceeded CapabilityArgs ChannelzMetric CheckSignature CloseWithError CombinedOutput CommonAuthInfo CompareAndSwap ContentSubtype ConvertSchema1 Cwd

Found in path(s):
* *content.Jobs
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/runc *chan<- os.Signal *cli.DurationFlag *cli.IntSliceFlag *cli.RequiredFlag *configs.HookList *configs.HookName *configs.IntelRdt *configs.Operator/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/runc(...)

Found in path(s):
* json:"uid" UnmarshalState XmitHashPolicy
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/runc

Found in path(s):
* getSliceFull
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/ctr
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd

Found in path(s):
* *snapshots.snapshotsListClient
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker

Found in path(s):
* XORKeyStream

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

alpha;alwaysamacr;amalg;angle;angrt;angst;aogon;appendarcnetaring;asymp;atildeattachavx512awint;backupbcong;bdquo;bearerbepsi;betterblank;blk12;blk14;blk34;blkio.blobs/block;bootIDborderboxDL;boxDR;boxDl;boxDr;boxHD;boxHU;boxHd;boxHu;boxUL;boxUR;boxUl;boxUr;boxVH;boxVL;boxVR;boxVh;boxVl;boxVr;boxdL;boxdR;boxdl;boxdr;boxhD;boxhU;boxhd;boxhu;boxuL;boxuR;boxul;boxur;boxvH;boxvL;boxvR;boxvh;boxvl;boxvr;branchbreve;bridgebrvbarbsemi;bsime;bsolb;bumpE;bumpe;bundlecallercalloccanvascapgetcapsetcaret;caron;causesccaps;ccedilccirc;ccups;cedil;centercephfscgroupchan<-
check;chrootcinderclientclone3closedclubs;colon;comma;commitconfigcookiecoordscpusetcrarr;createcross;cslip6csube;csupe;ctdot;cuepr;cuesc;cupor;currencuvee;cuwed;cwint;daggerdarwindashv;dblac;ddarr;definedeletedelim(delta;dev_iddevicedevptsdharl;dharr;diams;digestdisin;dividedomaindoteq;dotnetdoubledriverdryRundtdot;dtrif;duarr;duhar;eDDot;eacuteecirc;econeteetherefDot;efenceeffectegraveemacr;empty
empty;eogon;eplus;epsiv;eqsim;equiv;erDot;erarr;erlangerrno errorsesdot;evdo_0evdo_aevdo_beventsexec:
execveexist;existsexpectfamilyfcfb10fcfb11fcfb12fchdirfchmodfchownfflig;field
figurefilig;filterfjlig;fllig;fltns;followfooterforallforkv;formatfrac12frac14frac34frasl;frown;frozenfsTypefsopenfspickgamma;gcirc;genevegescc;getcpugetcwdgetgidgetpidgetsidgettidgetuidgimel;gneqq;gnsim;golanggophergrave;gretapgroupsgrpclbgsime;gsiml;gtcir;gtdot;hanadbhangupharrw;hcirc;headerhealthheartsheighthelliphgrouphiddenhoarr;hostIPhref="hsqldbiacuteicirc;iexcl;iframeigraveiiint;iiota;ijlig;imacr;image;imagesimath;imped;importindex-
infin;ingestingresinlineinprocinsertinuse_invokeiogon;iopermip+netip/ddpip6greip6tnlipMaskip_tcpip_udpiprod;ipvlaniquestisinE;isins;isinv;iukcy;jcirc;jmath;jsCtx(jstypejukcy;k8s.iokappa;killedlAarr;lBarr;labelslambdalangd;laquo;larrb;lates;latestlayer-
layer2layerslbarr;lbbrk;lbrke;lceil;lchownldquo;leakedleaseslegacylescc;level:lfloorlhard;lharu;lhblk;limitslinkatlistenllarr;lltri;lneqq;lnsim;loang;loarr;lobrk;loggerlopar;lowastlower1lower2lrarr;lrhar;lrtri;lsaquolsime;lsimg;lsquo;ltcir;ltdot;lte_caltrie;ltrif;mDDot;mailtomallocmdash;mediummembermemorymergedmethodmicro;middotminus;minutemlock2mount.mount=mountsmqueuemremapmsgctlmsggetmsgrcvmsgsndmumap;munmapnabla;napid;napos;nativenatur;nbump;ncong;ndash;ndots:neArr;nearr;nedot;nesim;netbsdnetdnsngeqq;ngsim;nhArr;nharr;nhpar;nlArr;nlarr;nleqq;nless;nlsim;nltri;nodejsnoexecnofilenomandnosuidnotifynotin;notni;nouuidnpart;nprec;nrArr;nrarr;nrtri;nsime;nsmid;nspar;nsubE;nsube;nsucc;nsupE;nsupe;ntildenumbernumsp;nvsim;nwArr;nwarr;oacuteobjectocirc;odash;oelig;ofcir;ograveohbar;olarr;olcir;oline;omacr;omega;onlineopenatoperp;oplus;oracleorarr;order;originoslashotildeotimesoutputovbar;packedparentparsl;pausedpdNamepermilpgpginpgscanphone;pimregpkcs11pluginplusb;pluse;plusmnpodIPspolicypopcntposterpound;prcue;preadvprefixprettyprime;printfprnap;promptpronetproto2proto3prsim;ptracepubsubpythonquest;quorumrAarr;rBarr;radic;rangd;range;raquo;rarrb;rarrc;rarrw;ratio;rbarr;rbbrk;rbrke;rceil;rdquo;rdrandrdseedreadU4readatreals;reasonrebootrel=%qremoverenameresumereturnrfloorrhard;rharu;rlarr;rlhar;rnmid;roang;roarr;robrk;rootfsropar;rrarr;rsaquorslaversquo;rtpriortrie;rtrif;rttimerune1
sbquo;scalarscaronsccue;schemescirc;scnap;scopedscopesscriptscsim;sdotb;sdote;seArr;searr;secondsecretselectsemctlsemgetsendtoserialseriesserversetenvsetgidsetmn;setsidsetuidsha256sha384sha512sharedsharessharp;shmctlshmgetsigma;sigmafsignalsignedsimeq;simgE;simlE;simne;sint32sint64slarr;smile;smtes;socketsocks
socks5sourcespadesspec:
splicesqcap;sqcup;sqlitesqsub;sqsup;srarr;srcdocsrcsetstablestarf;stat64state(statfsstatusstderrstdoutstringstrns;structsubnE;subne;supnE;supne;swArr;swarr;sweep
switchsybasesyncfssyntaxsyslogsysmonsystemszlig;taintstargettc_newtelnettenanttgkillthawedthere4theta;thinspthkap;thorn;threadtilde;timerstimes;toc_%dtracestrade;trisb;tshcy;tuntaptwixt;typeofuacuteubrcy;ucirc;udarr;udhar;ugraveuharl;uharr;uhblk;uint16uint32uint64ultri;umacr;umountunlinkunpigzunuseduogon;updateuplus;upsih;uring;urtri;usemapustar
ustar/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdDOWNGRD
DSA-SHA1DataLossDecemberDefault:Detail:
Details:Devices:DevmajorDevminorDiamond;Divisor:DocumentDownTee;DuployanDurationENDPOINTElement;EnumKindEnvFrom:EnvelopeEpsilon;EthiopicExecSyncExitCodeExports:ExtendeeExtenderFSGroup:Failcnt:Febru

aryFields:
FieldsV1FilePathFilters:Flocker:FullNameFunctionGODEBUG=Gateway:GeorgianGitRepo:GoStringGujaratiGurmukhiHTMLSpanHTTP/1.1HTTP/2.0HTTPGet:Handler:HiraganaHostIPC:HostPID:Hugetlb:INTERNALIgnore()ImageID:Implies;Ingress:InitErr:InstFailInstRuneInternalIsPackedIsPublicJSONNameJavaneseJstype:
KatakanaKayah_LiKeyGroupKeyValueKeyring:Kind(%d)LearningLeftTee;Linear_ALinear_BLinknameListMetaListPidsLocale:
LocationLogPath:MD5+SHA1MahajaniManager:MapValueMappingsMaxSkew:Message:MessagesMetadataMethod:
Methods:Metrics:Mixins:
NO_ERRORNO_PROXYNetwork:NewLine;NoBreak;NodeSpecNotFoundNotLess;NovemberNumber:
OSImage:Ol_ChikiOmicron;Oneofs: OomKill:OpenTcp:OptionalOptions:OverBar;PRIORITYPacked:
ParseIntPeriods:PgFault:PgPgOut:Pgfault:Pgsteal:Phags_PaPidsStatPlugins:PodCIDR:PodCidr:Portals:PreStop:PriorityProcess:Product;ProxyArpQuantityQuestionQuobyte:RBDPool:RECEIVEDRSA-OAEPRSSHuge:RTMAX-10RTMAX-11RTMAX-12RTMAX-13RTMAX-
14RTMIN+10RTMIN+11RTMIN+12RTMIN+13RTMIN+14RTMIN+15RdmaStatReadBoolReadInt8ReceivedRelated:RemovingRepeatedRequiredResourceRestrictResumingRunning:Runtime:RxBytes:SETTINGSSHA1-RSASHA3-224SHA3-256SHA3-384SHA3-
512SHN_LOOSSHUTDOWNSPDY/3.1Samples:SaturdayScaleIO:Seccomp:Seconds:Secrets:Servers:ServicesShimInfoShimPid:ShutdownSources:Started:SubPath:Subject:Subsets:Syntax:
Sysctls:TableRowTagbanwaTai_ThamTai_VietTaskPid:ThrottleThursdayTifinaghTime: %vTimeout:Too longToomanyTrailer:TxBytes:TypeAAAATypeAXFRTypeMetaTypeUrl:UgariticUnified:UpArrow;Uparrow;Upsilon;UserInfoValues:
VariableVariant:Verbose:Version:VolatileVolumes:Waiting:Windows:XAddModeZgotmplZ[rdt] [%d->%d][%s]:
%v[::1]:53[:word:][]Event{[]Image{[]PodIP{[]Taint{[mapKey][pkcs11][signal

Found in path(s):
* /docker-20-10-17-tgz/docker/containerd
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd *v2.shim
APIGroup Absolute ActorKey AdSelect AddBytes AddChild AddEvent AddFuncs AddUint8 AddValue AddrType
Addrtype Allocate AsString Attached AuthInfo AuthType BadValue Binomial BoolVarP Buffered ByIgnore ByMetho
ByNumber BytesHex BytesPtr CFHeader C_Digest C_Logout C_SetPIN C_Verify Ca_state CacheDir CapNames
CastType Category Channels Children CloseAll CmpInt64 Commands Comments Comparer Compiled Compress
ConnPool Constant Consumes Contains ContentD Contents Continue CopyFile CopyFrom CopyList CopyPipe CoreDu
CountFds CountVar DNSNames DNSStart DataSize DataType Deadline Decision DeepCopy DefValue Demangle
Describe DevMajor DevMinor Devmajor Devminor Digester Dispatch DoneFunc Duration ElseList EnableGC Encode
Encoding Endpoint ErrorLog EventNum ExecSync ExitCode ExitFunc ExitIdle ExitTime ExitedAt Expanded Expecte
Exporter Extendee FailFast Familiar Families FieldMap FileInfo FileLine FileName FilePath FileSize Filename Finali
FindType FlagSign Float32P Float64P FlowInfo Flowinfo Footnote FormFile FormName Fprintln Fragment FullName
Function GRPCConn GaugeVec GetArray GetBegin GetCount GetCtype GetDepth GetEntry GetError GetField GetGa
GetGroup GetIPNet GetImage GetIndex GetInt16 GetInt32 GetInt64 GetItems GetLabel GetLevel GetLimit GetLinks
GetLinux GetMajor GetMinor GetNanos GetOwner GetPaths GetSize_ GetSlice GetSpans GetStart GetState GetStats
GetStdin GetUint8 GetUsage GetValue GetXattr GoString GroupIds HasFired HasFlags HasValue HashFunc HeapIdle
HelpName HideHelp Hijacker HostPort Hostname HttpOnly IPNetVar IPSliceP IdleTime ImageRef Indirect InitJSON
Insecure Instance Int16Var Int32Ptr Int32Var Int64Ptr Int64Var Int8VarP IntSlice IntValue IsAssign IsBinary IsClient
IsFenced IsFolded IsHeader IsHidden IsLoaded IsNormal IsPacked IsPinned IsProto3 IsPseudo IsPublic IsRemote IsS

IsSigned IsStream IsString IsSubkey IsUint64 JSONName JsonName KeyUsage KeysById KillShim KindFlag LacpRa
Learning LengthOf LinkData LinkName LinkType Linkname ListData ListMeta ListPids Listener Locality Location
LookupIP LookupMX LookupNS MACAddrs MBSchema MSpanSys MapIndex MapRange MapValue MarkDead
MaxDelay MaxDepth Messages Metadata MinLinks MkdirAll MulRange Multiply Networks NewChild NewField
NewGauge NewTimer NewValue NextPart NodeType Nodename NotAfter Nsignals NumEnums NumField NumFiles
NumFlags NumLabel NumPorts OnCommit Operator Optional OrigName OtherSys OutTable Overhead Overlaps
PMtuDisc PageSize ParseAll Password PauseEnd PeerAddr PeerName Platform PortHigh Position PostForm Pow2252
PreferGo Priority Produces Protinfo Protocol Province ProxyArp ProxyURL PushBack PushStep PusherID Question
Queue_id QuoExact QuoRound RGBA64At RSSLimit RandBool RawFlags RawQuery RawToken RawWrite ReadBits
ReadBool ReadByte ReadData ReadForm ReadFrom ReadInt8 ReadLine ReadOnly ReadRune ReadUint ReaderAt
ReadySCs RealSize RecvTime Redacted Register Registry Releaser Repeated RepoTags Required Requires Reserver
Resolver Resource Response Revision Rollback RootPath Rootless RssQuery RunCount RxErrors S2KCount SPIFFEI
SameSite Scope_id Searches Sections Security SentTime Sequence ServeMux ServeTCP ServeTLS Services SetALUC
SetBytes SetEDNS0 SetError SetFlags SetFloat SetIndex SetInt64 SetLabel SetLevel SetMilli SetScale SetValue Seve
ShimInfo Shstrndx Shutdown SignInit Signaled SignedBy Simplify SizeType Snapshot Snd_cwnd SortKeys SpanKind
SpewKeys Spoofchk Sprintln StackSys StopShim StreamID StreamId SubChans SubImage Subjects Subtract SysUsag
TableLog Terminal TextName ToString ToUint32 ToUint64 TrailCCC Truncate TxErrors TypeFlag TypeMeta TypeN
Typeflag Uint8Var UintVarP UnixConn UnixNano Unparsed Unscaled UseBlock UseProxy UserName UserTime
Username Validate Validity VarCount VarNames Verified Verifier VisitAll Warningf Weighted WireType WithArgs
WithKind WithName WithSink WithTime WithType WrapKeys Writable WriteInt WriteMsg WriteNil WriteRaw
WriteVal XXX_Size/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd
getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd *zstd.seq
AResource AcceptTCP AddCookie AddDevice AddGoFlag AddHeader AddObject AddOutput AddRtAttr AddSignal
AddUint16 AddUint24 AddUint32 AddValues Addralign Addresses AfterFunc Aggregate Algorithm AllocSize
AllowHTTP Anonymous AppendCRC ApplyOpts ArgsUsage AsFloat64 AsIfaceOf AsValueOf Attribute Authority
Authorize AutoClose Available BaseDelay BasicAuth BeginTime Benchmark BitLength BlockSize BoolSlice Broadcas
BusObject ByteOrder BytesHexP BytesSent CATSchema CNIResult CRTValues C_Decrypt C_Encrypt C_GetInfo
C_InitPIN C_WrapKey CallDepth CallSlice ClientCAs CloseChan CloseConn CloseRead CloseSend CloseWait
Coalesced Collector Commented Committed ConnState Connected Container Continued Converter Copyright CountVa
CreateCRL CreatedAt CurryWith DBusError DaysSince DebugData DecodeAll DecoderOf DeepEqual Delimiter
Deprecate DeriveKey DeviceIdx DialCreds DidResume DigestKey DoNotCopy DotReader DownDelay DualStack
DurationP DynString ECDSASigR ECDSASigS Eavesdrop EmitASCII EncapType EncodeAll EncoderOf Encrypted
EndColumn EndStream EqualTime ErrClosed ErrStatus ErrWriter ErrorBody ErrorCode EventChan EventFile EventLo
Exclusive ExportAll Extension ExtraInfo FastLeave FenceChar FieldsMap FileLocks FillBytes FindIndex FirstData
FlagNames FlowBased FormValue Formatter FreeAlloc FreeBytes FreePageN FromBytes FromNames Ftruncate
FullBytes FuncProto GaugeOpts GetAttach GetBucket GetByType GetCallId GetConfig GetDetail GetDevice GetDiges
GetDomain GetEnvMap GetEvents GetFields GetFilter GetFormat GetHostIp GetImages GetIpPort GetJstype GetLabe
GetLength GetLocale GetLogger GetMemory GetMethod GetMetric GetMixins GetModule GetMounts GetNumber
GetObject GetOneofs GetPacked GetPinned GetReason GetSerial GetServer GetSocket GetSpanId GetStatus GetStderr
GetStdout GetString GetSyntax GetTarget GetUint16 GetUint32 GetUint64 GetValues GlobalInt GlobalSet GoValueOf
GobDecode GobEncode GroupKind GroupName GuestNice HTTPProxy HandleRPC Handshake HasCaller HasPacked
HasSpanID HeadingID HeapAlloc HeapInuse HelloTime Histogram IPConfigs IPMaskVar IPNetVarP IfInfomsg
ImageData ImagePath ImageSpec Increment IndexType InfoDepth InitCheck InitLevel InitToken InlineMap Int16VarP
Int32VarP Int64VarP IntSliceP Interface Interpret Intersect IsComplex IsCreated IsDefault IsKeyword IsLiteral IsMess
IsNumeric IsOnCurve IsPacked3 IsPrivate IsRegular IsSampled IsSandbox IsServing IsTimeout IsValidGo IsValidPB
KeepAlive KernelBTF KeyUsages LastChild LastError LatencyMu LazyPages LeafAlloc LeafInuse LeafPageN LinkAu
LinkState ListFlags LocalAddr Locations LogCaller LogFormat LookupSRV LookupTXT MCacheSys MakeSlice
MarshalTo MatchRune MaxErrAge MaxTokens MaxTxRate MediaType MessageIs MessageOf MetricVec MiiStatus

MinTxRate MmapFlags MoveAfter Multiaddr Multicast Multiline Namespace NetNSPath NewResult NewSpanID NewStream NewTicker NilChance NodeCount NodeDeref NonceSize Normalize NotBefore NumMethod NumSubexp ObjectRef OmitEmpty OpenCount OpenStdin OperState Operation Overwrite PBES2Salt PBValueOf PackEFace PadLength PageAlloc PageCount ParentIDs ParseForm ParseGlob ParseName Partition Pdeathsig Phentsize PixOffset Platforms Precision Processes PromiseID ProtoSize ProtoTime ProtoType ProxyFunc PublicKey PullImage PushFront PutUint16 PutUint32 PutUint64 QuickSpan RatString RawIssuer RawOutput Rcv_space ReadArray ReadBytes ReadFrame ReadInt16 ReadInt32 ReadInt64 ReadMapCB ReadMsgIP ReadSlice ReadUint8 Rebalance Reconnect Reference Registers RemoveAll Reserved1 ResetPool ResizePty Resources RestartMs RootBlock RoundTrip RxDropp RxPackets Sa_family SandboxID ScanState SchemaURL SendReply Sensitive Serialize ServeConn ServeGRPC ServeHTTP SetBuffer SetEnvMap SetExited SetFormat SetFrac64 SetHeader SetIndent SetInline SetJumpOp SetLabel SetLinger SetNoLock SetOutput SetPrefix SetRGBA64 SetScaled SetSource SetStatus SetString SetUint64 SetValues SharedKey Shentsize ShortName Shorthand SignFinal Signature SkipSpace SlaveType SnapshotD Snapshots SortFlags SourceIPs SourceSAP Specified SpillTime SplitKeys SqrtRatio StartCond StartLine StartTime StartedAt Starttime StdinOnce StdinPipe StreamDep StringLen StringOff StringPtr StringVar Subscribe Subsystem Supported Suspended TLSConfig TLSUnique TableLive TakesFile TargetIdx Templates Temporary Terminate TimeNanos Timestamp TlsConfig ToFloat32 ToFloat64 Transform Transport TrapCause Truncated TxDropped TxPackets TypeCheck TypeEn Uint16Var Uint32Ptr Uint32Var Uint64Ptr Uint64Var Uint8VarP UintSlice UnixMicro UnixMilli Unmarshal UnsafeCa UnsafeGet UnsafeNew UnsafeSet UnwrapKey UpdatedAt UsageText UseNumber UserAgent ValueElem ValueSize ValueType Verbosity Versioned WaitGroup WaitWrite WarningFn Warningln WithError WithField WithLease WithValue WriteBool WriteByte WriteData WriteFile WriteFlag WriteInt8 WriteJson WriteMore WriteName WriteOn WritePing WritePong WriteRune WriteTime WriteToIP WriteTrue WriteUint XXX_Merge X__unused/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd

Found
in path(s):
* The contents of the target Secret's Data field will be presented in a volume as files using the keys in the Data field as the file names. Secret volumes support ownership management and SELinux relabeling.NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match a node's labels for the pod to be scheduled on that node. More info: https://kubernetes.io/docs/concepts/configuration/assign-pod-node/The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified
in SecurityContext takes precedence.The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.procMount denotes the type of proc mount to use for the containers. The default is DefaultProcMount which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled.MaxLimitRequestRatio if specified, the named resource must have a request and limit that are both non-zero where limit divided by request is less than or equal to the enumerated value; this represents the max burst for the named resource.version is the preferred version of the resource. Empty implies the version of the containing resource list For subresources, this may have a different value, for example: v1 (while inside a v1beta1 version of the core resource's group)".Target directory
name. Must not contain or start with '..'. If '.' is supplied, the volume directory will be the git repository. Otherwise, if specified, the volume will contain the git repository in the subdirectory with the given name.podIPs holds the IP addresses allocated to the pod. If this field is specified, the 0th entry must match the podIP field. Pods may be allocated at most 1 value for each of IPv4 and IPv6. This list is empty if no IPs have been allocated yet.EndpointsNamespace is the namespace that contains Glusterfs endpoint. If this field is empty, the EndpointNamespace defaults to the same namespace as the bound PVC. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-podPodSecurityContext holds pod-level security attributes and common container settings. Some fields are also present in container.securityContext. Field values of

container.securityContext take precedence over field values of PodSecurityContext.Docker image name. More info: https://kubernetes.io/docs/concepts/containers/images
This field is optional to allow higher level config management to default or override container images in workload controllers like Deployments and StatefulSets.The kind attribute of the resource associated with the status StatusReason. On some operations may differ from the requested resource Kind. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kindsThe Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.Audience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to the identifier of the apiserver.When present, indicates that modifications should not be persisted.
An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed(?i)^(?:<[A-Za-z][A-Za-z0-9-]*(?:\s+[a-zA-Z_:][a-zA-Z0-9:._-]*(?:\s*=\s*(?:[^'"=<>`\x00-\x20]+|'[^']*'|"[^"]*"))?)*\s*/?>|</[A-Za-z][A-Za-z0-9-]*\s*[>]|<!---->|<!--(?:-?[^>-])(?:-?[^-])*-->|[<][?].*?[?][>]|<![A-Z]+\s+[^>]*>|<!\[CDATA\[[\s\S]*?\]\]>)APIVersion defines the version of this resource that this field set applies to. The format is "group/version" just like the top-level APIVersion field. It is necessary to track the version of a field set because it cannot be automatically converted.Template is the object that describes the pod that will be created if insufficient replicas are detected. This takes precedence over a TemplateRef. More info: https://kubernetes.io/docs/concepts/workloads/controllers/replicationcontroller#pod-templateReplicas is the number of desired replicas. This is a pointer to distinguish
between explicit zero and unspecified. Defaults to 1. More info: https://kubernetes.io/docs/concepts/workloads/controllers/replicationcontroller#what-is-a-replicationcontrollerThe GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container.singularName is the singular name of the resource. This allows clients to handle plural and singular opaquely. The singularName is more correct for reporting status on a single item and both singular and plural are allowed from the kubectl CLI interface.matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.The name of the cluster which the object belongs
to. This is used to distinguish resources with same name and namespace in different clusters. This field is not set anywhere right now and apiserver is going to ignore it if set in create or update request.Active reports the checkpointed config the node is actively using. Active will represent either the current version of the Assigned config, or the current LastKnownGood config, depending on whether attempting to use the Assigned config results in an error.
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd|*struct { F uintptr; req *containers.CreateContainerRequest; l *containers.local; resp *containers.CreateContainerResponse }
IoTimeRecursivelprotobuf:"bytes,7,rep,name=io_time_recursive,json=ioTimeRecursive,proto3"
json:"io_time_recursive,omitempty"
MajorPageFaultslprotobuf:"bytes,7,opt,name=major_page_faults,json=majorPageFaults,proto3"
json:"major_page_faults,omitempty"
ResponseTypeUrllprotobuf:"bytes,4,opt,name=response_type_url,json=responseTypeUrl,proto3"
json:"response_type_url,omitempty"
SlabReclaimablelprotobuf:"varint,16,opt,name=slab_reclaimable,json=slabReclaimable,proto3"
json:"slab_reclaimable,omitempty"
WorkingSetByteslprotobuf:"bytes,2,opt,name=working_set_bytes,json=workingSetBytes,proto3"

json:"working_set_bytes,omitempty"/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdruntime.convTslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdruntime.notetsleep_internal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdruntime.notetsleep/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdruntime.notetsleepg/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdruntime.printslice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdruntime.runqputslow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsync.(*Pool).getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdtime.digitsLen/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdreflect.cvtSliceArrayPtr/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.IntSlice.Search/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.IntSlice.Len/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.IntSlice.Less/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.IntSlice.Swap/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.IntSlice.Sort/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.(*IntSlice).Len/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.(*IntSlice).Less/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.(*IntSlice).Search/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.(*IntSlice).Sort/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdsort.(*IntSlice).Swap/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdpath.lastSlash/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/gogo/protobuf/proto.(*Buffer).decodeVarintSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/gogo/protobuf/proto.pointer.getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.sizeFloatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.appendFloatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.consumeFloatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.sizeFloatSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.appendFloatSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.consumeFloatSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow·dwrap·4/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/google.golang.org/protobuf/internal/impl.(*ExtensionInfo).lazyInitSlow·dwrap·3/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/pkg/errors.StackTrace.formatSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/golang.org/x/net/internal/timeseries.(*tsLevel).Clear/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/golang.org/x/net/internal/timeseries.(*tsLevel).InitL

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/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetHeader/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/api/services/snapshots/v1.snapshotsListServer.SetTrailer/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/go.opentelemetry.io/otel/attribute.Key.IntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/go.opentelemetry.io/otel/attribute.IntSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/go.opentelemetry.io/otel/attribute.(*Key).IntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/apimachinery/pkg/util/json.ConvertSliceNumbers/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/sigs.k8s.io/structured-merge-diff/v4/value.convertSliceNumbers/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).Reset/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).ProtoMessage/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).Descriptor/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).XXX_Unmarshal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).XXX_Marshal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).XXX_Merge/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).XXX_Size/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).XXX_DiscardUnknown/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).Marshal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).MarshalTo/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).MarshalToSizedBuffer/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).Size/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).String/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).Unmarshal/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.EndpointsList.SwaggerDoc/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).DeepCopyInto/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).DeepCopy/opt/c

ola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).DeepCopyObject/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).GetContinue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).GetListMeta/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).GetObjectKind/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).GetRemainingItemCount/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).GetResourceVersion/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).GetSelfLink/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).GroupVersionKind/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).SetContinue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).SetGroupVersionKind/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).SetRemainingItemCount/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).SetResourceVersion/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).SetSelfLink/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/k8s.io/api/core/v1.(*EndpointsList).SwaggerDoc/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*boolSliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*durationSliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*float32SliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*float64SliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*int32SliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*int64SliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*intSliceValue).Set/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*intSliceValue).Type/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*intSliceValue).String/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*intSliceValue).Append/opt

/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*intSliceValue).Replace/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*intSliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.intSliceConv/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).GetIntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).IntSliceVar/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.newIntSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).IntSliceVarP/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).IntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).IntSliceP/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*ipSliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*stringArrayValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*stringSliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*uintSliceValue).Set/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*uintSliceValue).Type/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*uintSliceValue).String/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*uintSliceValue).Append/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*uintSliceValue).fromString/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*uintSliceValue).Replace/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*uintSliceValue).GetSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*uintSliceValue).toString/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.uintSliceConv/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).GetUintSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).UintSliceVar/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.newUintSliceValue/opt/cola

/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).UintSliceVarP/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).UintSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/spf13/pflag.(*FlagSet).UintSliceP/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdtype..eq.github.com/containerd/containerd/vendor/github.com/spf13/pflag.intSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdtype..eq.github.com/containerd/containerd/vendor/github.com/spf13/pflag.uintSliceValue/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/miekg/pkcs11._Cfunc_GetSlotList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/miekg/pkcs11.(*Ctx).GetSlotList/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/miekg/pkcs11.(*Ctx).GetSlotList.func1/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/golang.org/x/crypto/openpgp/packet.subpacketsLength/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/urfave/cli.stringifyIntSliceFlag/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*IntSlice).Value/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*Context).IntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/urfave/cli.lookupIntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/github.com/urfave/cli.(*Context).GlobalIntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdtype..eq.github.com/containerd/containerd/vendor/github.com/urfave/cli.IntSliceFlag/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerdgithub.com/containerd/containerd/vendor/go.opentelemetry.io/otel/attribute.IntSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim getSlow/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim getSlice/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/containerd-shim

Found
in path(s):
* WritableLayerdprotobuf:"bytes,4,opt,name=writable_layer,json=writableLayer,proto3" json:"writable_layer,omitempty"
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker
/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/dockerd

Found in path(s):
* strictSlash

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

/opt/cola/permits/2638087389_1758660464.1729765/0/docker-20-10-17-tgz/docker/docker *yaml.yamlError *zip.Compressor *zip.FileHeader AddEventHandler AddIfNotPresent AddWithExemplar AppArmorProfile AuthTokenSecret AuthorityHeader AuthorizationV1 BearerTokenFile BuildCachePrune BuildCatalogURL BuildkitVersion BytesBase64VarP C_DecryptUpdate C_DestroyObject C_EncryptUpdate C_GetObjectSize C_VerifyRecover ClientHandshake ClusterDefaults CompletedTraces ComputeChecksum ConnectionError ConnectionState ConstantTimeSum ContainerAttach ContainerCommit ContainerConfig ContainerCreate ContainerExport ContainerIDFile ContainerMounts ContainerRemove ContainerRename ContainerResize ContainerUpdate ContainersPrune ContextSpecific CopyStoreObject CopyToContainer CreateFormField CriticalOptions CryptoPublicKey CryptokiVersion DecorateDecoder DecorateEncoder DefaultAddrPool DisableChunking DiscoveryClient EndpointsConfig EphemeralPubKey EscapedFragment ExcludePatterns ExecuteTemplate ExtraExtensions FieldByNameFunc FindAllSubmatch FindObjectsInit FindReaderIndex FindStringIndex FirmwareVersion Float32SliceVar Float64SliceVar ForceNewCluster GenerateKeyPair GetArchitecture GetCacheImports GetClientHeader GetCustomPrefix GetDefaultValue GetDesiredState GetExplicitFile GetExporterAttr GetExternalDocs GetFloat32Slice GetFloat64Slice GetGenerateName GetGoAwayReason GetHostTemplate GetKeepDuration GetManifestList GetMethodConfig GetPathTemplate GetPhpNamespace GetReservedName GetResourceName GetResourceType GetResponseCode GetServerHeader GetStackEntries GetTargetByName GreaterThanZero HardwareVersion HasCapabilities HasCertCallback HasExperimental HasFragmentOnly HasFullFilePath HasUpdateConfig HasUpdateStatus HistogramWindow IdentityMapping IdleConnTimeout IncludePatterns IsDefaultConfig IsEventResource IsGlobalUnicast IsUnlessStopped KeepaliveParams KernelMemoryTCP Keys

Found
in path(s):
* sshtype:"32" XXX_OneofFuncs YubiPrivateKey

1.357 distlib 0.2.9.post0

1.357.1 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 the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes

2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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==========

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

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Thanks to:

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- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
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1.358 rfc3986 1.3.2

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1.359 python-certifi 2021.05.30

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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 $

1.360 futures 3.4.0

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1.361 distlib 0.3.2

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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
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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
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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
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2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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Distutils2 Contributors
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The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

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

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

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1.362 urllib3 1.26.6

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1.363 pep517 0.5.0

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1.364 cachecontrol 0.12.5

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1.365 protobuf 1.4.3

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1.366 html5lib 1.1

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1.367 pyasn1 0.4.8

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ASN.1 library for Python

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blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

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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* /etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/tests/codec/__main__.py
* /etingof-pyasn1-v0-4-8-0-g70c1bbd-1-tar-gz/etingof-pyasn1-70c1bbd/tests/codec/native/test_encoder.py
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ASN.1 library for Python
========================

.. toctree::
  :maxdepth: 1

Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) 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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.. toctree::
:maxdepth: 2

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Getting help

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

Books on ASN.1

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

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

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

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

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

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

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

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1.368 python-pip 19.2.3

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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
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All Python releases are Open Source (see http://www.opensource.org for
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Release	Derived	Year	Owner	GPL-

	from			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
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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
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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
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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Found in path(s):
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Metadata-Version: 2.1
Name: example
Version: 21.12
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: Apache Software License
Platform: UNKNOWN

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Found in path(s):
* /example-21-12-dist-info-zip/inputdir/packages_extracted/wheel/127/example-21.12.dist-info/METADATA

1.370 protobuf 3.9.2

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  * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
   * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)

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1.371 amzn-drivers-ena 2.5.0

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1.374 libidn 2.3.0

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1.375 glibc-locale 2.33

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1.376 inetutils 2.0

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

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif

/*

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

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

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



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

#endif /* _BASENAME_LGPL_H */
```

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Version 3, 29 June 2007

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```
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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 */
```

1.377 monit 5.27.2

1.377.1 Available under license :

```
# This is a sorted list of awsome people who have contributed in some
# way or the other to the Monit project over the years

Arkadiusz Miskiewicz
Artyom Khafizov
Bret "Trixter" McDanel
Christian Hopp
Dave Cheney
David Fletcher
Francois Isabelle
Hippo Lin
Igor Homyakov
Jan-Henrik Haukeland
Joe Bryant
Kianusch Sayah Karadji
Klaus Heinz
```

Lior Okman
Marco Bisioli
Margarida Sequeira
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Michael Amster
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1.380 cryptsetup 2.3.7

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src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
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src/freezero.c
src/getentropy_aix.c
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1.383 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_ALIGNED_ONLY=y
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References

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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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The argparse module was contributed to Python as of Python 2.7 and thus
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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.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+,
this does *not* cover the so-called "standalone" applications that
use U-Boot services by means of the jump table provided by U-Boot
exactly for this purpose - this is merely considered normal use of
U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
not fall under the heading of "derived work".
-- Wolfgang Denk
The QEMU distribution includes both the QEMU emulator and
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Key Dates
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* 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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https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html
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==========
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2. Your commit message must include your "Signed-off-by" signature,
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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 1.1
The "TianoCore Contribution Agreement" is included below in
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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 =
=====================================================

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
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= TianoCore Contribution Agreement 1.1 =
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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 1.0
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
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   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
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Key Dates

---

* August 3, 2017

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Version 1.0 covers source code files. Version 1.1 is a
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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
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* April 9, 2019

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  3. Your "Contributed-under" message
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     contribution is made under the terms of the specified
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     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
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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
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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 1.0
The "TianoCore Contribution Agreement" is included below in
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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 =
================================================

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
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John R. Hauser
2018 January 20

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op,
 "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file,
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{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
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{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL,
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{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
 "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ 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,
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{ 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
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{ 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,
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{ 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_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_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
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{ 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,
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{ 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,
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{ 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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1.385 dtc 1.6.0

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1.386 debianutils 4.11.2

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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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```
/* 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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1.395 shrapnel 1.0

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* /shrapnel-1-0-tar-gz/shrapnel-1.0/coro/optional.py
* /shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/threading.py
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Metadata-Version: 1.0
Name: shrapnel
Version: 1.0.0-000
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1.396 xfsprogs 5.10.0

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1.397 cdrtools 3.01a31

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Version 2.1, February 1999

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The terms and conditions of the GPL only cover a GPLd work but do not
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Linking a GPL'd work with another work does not create a "derived work"
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and conditions of the GPL. The GPL however requires the other parts to
be delivered with the GPLd parts in order to permit to rebuild the binary.

Note: In case of statical linking,
the resulting "mkisofs binary" is a
combination of several separate projects (works) under different licenses.
If you combine code from different licenses, you need to honor the legal
implications from the included GPL code and the other code.

If you just publish the complete original cdrtools source, you honor the GPL.
If you like to create a separate mkisofs package, be careful to verify that
everything that is needed to compile mkisofs is contained in this package.
@(#)LIMITATIONS 1.3 09/04/10 Copyright 2002-2007 J. Schilling

This software is under CDDL but you should read the following clarifications:

- You may not modify certain copyright messages in cdrecord.c

See cdrecord.c for further information.

- You may (with a few exceptions) not modify the location of the
configuration file /etc/default/cdrecord.

See defaults.c for further information.

The Author does encourage you to make changes in consent with him.
Since this if free software, you are of course free to make any
modifications you seem fit. However, if you choose to do this,
the restrictions (see below) apply.

Note that the fact that the Author is disallowing you to change things that
affect global compatibility and the fact that you are required to warn people
in case you did use an unapproved build system is not in violation with

http://www.opensource.org/docs/definition.php
or
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as you are still allowed to make any changes you like
in case you:

- clearly document that you don't care about compatibility (e.g. identical
behavior on all supported platforms) or quality (in case you use an
unaproved build system)

- clearly document that you did create a globally incompatible version

- clearly document that you document your reasons and the background for
the modifications you did make

- clearly also inform all users about the official behavior of the
original version of the program and avoid to confuse users with
spreading usage information that does not add a hint that this
information does not apply to the original version.

In case that you create a variant of cdrecord that is too different from the
original, you should think about using a different name. Note that as e.g.
many people use the name "dvdrecord" when talking about the DVD-enabled
origional version of cdrecord. For this reason, I believe that "dvdrecord"
is a too similar name.

In case that you change the behavior of the dev= option on a
platform that
is already supported by the files in the original source distribution,
this is considered to be a significant deviation. You need to change the name

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1.398 python-protobuf 3.9.2

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* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/json_format.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/enum_type_wrapper.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/reflection.py
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 /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/extension_dict.py
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* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/type_checkers.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/api_implementation.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/encoder.py
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* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/message_factory.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/proto_builder.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/descriptor_database.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/well_known_types.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/symbol_database.py
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*

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* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/testing_refleaks.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/service.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/__init__.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/cpp_message.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/descriptor_pool.py
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/descriptor.py
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* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message_factory.cc
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/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message_factory.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/field.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor.h

* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor_pool.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message_module.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/unknown_fields.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/repeated_composite_container.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/map_container.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/proto_api.h
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* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/safe_numerics.h
*
 /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/unknown_fields.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor_containers.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/api_implementation.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor_containers.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/extension_dict.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/extension_dict.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/map_container.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor_pool.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/repeated_composite_container.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/repeated_scalar_container.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/scoped_pyobject_ptr.h
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 /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/python_protobuf.h
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/python_protobuf.cc
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor_database.cc
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Metadata-Version: 1.2
Name: protobuf
Version: 3.9.2
Summary: Protocol Buffers
Home-page: https://developers.google.com/protocol-buffers/
Maintainer: protobuf@googlegroups.com
Maintainer-email: protobuf@googlegroups.com
License: 3-Clause BSD License
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
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6

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Found in path(s):
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/protobuf.egg-info/PKG-INFO
* /protobuf-3-9-2-tar-gz/protobuf-3.9.2/PKG-INFO

1.399 mcelog 175

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1.400 d-bus 1.12.20

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1.402 gcc-sanitizers 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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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
==========

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```
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/* Definitions for BSD assembler syntax for Intel 386
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/* 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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1.404 qat 4.12.0-00011

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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
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the work with the complete corresponding
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properly with a modified version of the library, if
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1.413 dhcp 4.4.2p1

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  </xsl:if>
</xsl:template>

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  <xsl:text>
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  <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>
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 </xsl:variable>
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```

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 - Local variables:
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procfs provides functions to retrieve system, kernel and process
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1.419 python3-asn1crypto 1.4.0

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1.420 python-setuptools 54.1.1

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1.421 python-requests 2.25.1

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1.422 pyyaml 5.4.1

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1.423 inotify-tools 3.20.11.0

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1.424 i2c-tools 4.2

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