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- 1.329 tunctl 1.5**
 - 1.329.1 Available under license
- 1.330 libgcc 11.4.0**
 - 1.330.1 Available under license
- 1.331 less 600**
 - 1.331.1 Available under license
- 1.332 libtraceevent 1.8.2**
 - 1.332.1 Available under license
- 1.333 gcc-sanitizers 11.4.0**
 - 1.333.1 Available under license
- 1.334 qemu 6.2.0**
 - 1.334.1 Available under license
- 1.335 dpkg 1.21.4**
 - 1.335.1 Available under license
- 1.336 haveged 1.9.18**
 - 1.336.1 Available under license
- 1.337 python3-idna 3.3**
 - 1.337.1 Available under license
- 1.338 xfsprogs 5.13.0**
 - 1.338.1 Available under license
- 1.339 dpdk-kmods 1.0**
 - 1.339.1 Available under license
- 1.340 debianutils 5.7**
 - 1.340.1 Available under license
- 1.341 dhcp-relay 4.4.3**
 - 1.341.1 Available under license
- 1.342 abseil-cpp 20230125.1**
 - 1.342.1 Available under license
- 1.343 strongswan 5.9.6**
 - 1.343.1 Available under license
- 1.344 python-pexpect 4.7.0**
 - 1.344.1 Available under license
- 1.345 tnftp 20210827**

- 1.345.1 Available under license
- 1.346 libmd 1.0.4**
 - 1.346.1 Available under license
- 1.347 pam-tacplus 1.6.2**
 - 1.347.1 Available under license
- 1.348 python-protobuf 3.9.2**
 - 1.348.1 Available under license
- 1.349 dpdk 22.11.0**
 - 1.349.1 Available under license
- 1.350 rrdtool 1.8.0**
 - 1.350.1 Available under license
- 1.351 harfbuzz 4.0.1**
 - 1.351.1 Available under license
- 1.352 python3-certifi 2021.10.8**
 - 1.352.1 Available under license
- 1.353 libidn 1.36**
 - 1.353.1 Available under license
- 1.354 vim 9.1.0114**
 - 1.354.1 Available under license
- 1.355 opkg-utils 0.5.0**
 - 1.355.1 Available under license
- 1.356 python3-cryptography 36.0.2**
 - 1.356.1 Available under license
- 1.357 libdbd-sqlite-perl 1.68**
 - 1.357.1 Available under license
- 1.358 inetutils 2.2**
 - 1.358.1 Available under license
- 1.359 python-pyyaml 5.4.1**
 - 1.359.1 Available under license
- 1.360 util-linux-libuuid 2.37.4**
 - 1.360.1 Available under license
- 1.361 gcc-run-time 11.4.0**
 - 1.361.1 Available under license
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- 1.363 ndisc 1.0.6**
 - 1.363.1 Available under license
- 1.364 libdbi-perl 1.643**
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1.365 mtools 4.0.38

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1.366 ixgbev 4.15.1

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1.367 runc 1.1.5+gitAUTOINC+f19387a6be

1.367.1 Available under license

1.368 ixgbe 5.15.2

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1.372 amzn-drivers-ena 2.8.0

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1.375 xorriso 1.5.5

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1.377 ncurses 6.3+20220423

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1.378 freeradius 3.0.21

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1.382 rasdaemon 0.8.0

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1.383 packaging 21.3

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1.385 ptyprocess 0.7.0

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All remaining

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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 License. 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 publicly 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

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- *
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- * 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)

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

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

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

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- * code. (Other names may, of course, be added as modifications
- * are made.) Corporate legal staff (like at IBM :-)) who have
- * problems understanding this can contact me through Zip-Bugs...

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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.

1.2 lasso 2.5.1

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Version 2, June 1991

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```

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```
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```

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1.3 libmnl 1.0.4

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1.5 libwww 5.4.2

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1.6 berkeley-db 6.0.30

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* SUCH DAMAGE.
*
* $Id$
*/

```

```

#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->pagesize) >
    B_MINKEY_TO_OVFLSIZE(dbp, DEFMINKEYPAGE, dbp->pagesize)) {
    __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->pagesize);
    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: compression 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);
}
#ifdef 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->pagesize;
    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);
}

```

1.7 bind 9.11.4

1.7.1 Available under license :

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Automated Testing Framework

=====

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

=====
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-

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-->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

```

xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    <xsl:value-of
      select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml

```

- End:

-->

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1.8 bzip2 1.0.8

1.9 dmidecode 3.3

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1.10 libdaemon 0.14

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1.11 zeromq 4.2.3

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1.12 lua 5.1

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1.13 net-tools 2.10

1.13.1 Available under license :

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1.14 ipmi-tool 1.8.18

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1.15 libcroco 0.6.13

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1.16 fbset 2.1

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

- Seth Arnold, for contributing to the documentation.
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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.

1.22 Im-sensors 3.4.0

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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.

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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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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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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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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".)

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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

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1.24 python-pyrad 1.2

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1.25 wireless-tools 30.pre9

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1.28 ipmiutil 1.8.18

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Source: <http://ipmiutil.sourceforge.net>

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1.29 sed 4.8

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```

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1.30 tcp-wrappers 7.6

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1.31 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.

All

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

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

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1.33 augeas 1.12.0

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1.34 websocketpp 0.8.2

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

***** SHA1 Library (sha1/sha1.hpp) *****

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***** MD5 Library (common/md5.hpp) *****

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L. Peter Deutsch
ghost@aladdin.com

***** UTF8 Validation logic (utf8_validation.hpp) *****

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1.41 apache-http-server 2.4.46

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```

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For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* 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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*****
*
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* -----

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

#

install - install a program, script, or datafile

This comes from X11R5 (mit/util/scripts/install.sh).

#

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For the test\zb.c component:

/* ZeusBench V1.01

=====

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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)

*/

For the expat xml parser component:

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```

=====
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
      This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
      -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css"
/>
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplanc">
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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

class="warning">Notice:<br

<script type="text/javascript"><!--><![CDATA[//><!--

var comments_shortname = 'httpd';

var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +

comments_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');

}

})(window, document);

//><![></script></div><div id="footer">

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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[</><!--
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
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1.42 json-c 0.15

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1.43 brotli 1.0.9

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1.44 gettext 0.21

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end
smallexample

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@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
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This subpackage is under the GPL, see file COPYING in the toplevel directory.
The libasprintf package is under the LGPL, see file COPYING.LIB.
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@heading TERMS AND

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@ifinfo

@center

NO WARRANTY

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@page

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

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@smallexample

@var{one line to give the program's name
and a brief idea of what it does.}

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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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- 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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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.

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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

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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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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

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1.45 libyami 0.2.5

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1.46 pyasn1 0.4.8

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Metadata-Version: 1.2

Name: pyasn1

Version: 0.4.8

Summary: ASN.1 types and codecs

Home-page: <https://github.com/etingof/pyasn1>

Author: Ilya Etingof

Author-email: etingof@gmail.com

Maintainer: Ilya Etingof <etingof@gmail.com>

License: BSD

Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
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Classifier: Programming Language :: Python :: 2.4
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Programming Language :: Python :: 2.5
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Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_constraint.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py

```

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedval.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/__main__.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_tag.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_octets.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/der/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_univ.py
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/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/der/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/test_decoder.py

```

```
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/test_encoder.py
```

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ASN.1 library for Python

```
[[PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[[Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[[Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)
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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
[[GitHub license](https://img.shields.io/badge/license-BSD-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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Found in path(s):

\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/README.md

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.. \_license:

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=====

```
.. include:: ../../LICENSE.rst
```

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```
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```

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ASN.1 library for Python

```
=====
```

```
.. toctree::
```

```
 :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](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 it 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](https://news.ycombinator.com/item?id=8871453) on that topic.

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

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

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

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

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

#### Documentation

-----

```
.. toctree::
 :maxdepth: 2
```

```
/pyasn1/contents
```

Use case

-----

```
.. toctree::
 :maxdepth: 2
```

```
/example-use-case
```

Download & Install

-----

```
.. toctree::
 :maxdepth: 2
```

```
/download
```

Changes

-----

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

```
..
```

```
toctree::
 :maxdepth: 1
```

```
/changelog
```

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-----

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```
.. toctree::
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```

```
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```

Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_

and `PRs <<https://github.com/etingof/pyasn1/pulls>>` \_ at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow <<http://stackoverflow.com/questions/tagged/pyasn1>>` \_  
or search  
`pyasn1-users <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` \_  
mailing list archive.

Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>` \_ by Olivier Dubuisson
- \* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` \_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards  
<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` \_

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` \_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

## 1.47 pciutils 3.7.0

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```

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```
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```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.49 redis 4.2.2

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```
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```

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```
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```

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## 1.51 parted 3.4

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## 1.52 avahi 0.8

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```

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Version 3, 29 June 2007

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## 1.56 dosfs-tools 4.2

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## 1.60 Im-sensors 3.6.0

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\* 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.

## 1.61 psmisc 23.4

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- \* 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.

## 1.63 freeradius 3.0.21

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```

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# PLY (Python Lex-Yacc)                      Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction  
=====

PLY is a 100% Python implementation of the common parsing tools lex  
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.  
If you know how to use these tools in C, you will find PLY

to be similar.

- PLY provides \*very\* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

#### How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install

ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

#### Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

#### Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

## Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

## Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```

calc.py
#
A simple calculator with variables.

tokens = (
 'NAME','NUMBER',
 'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
 'LPAREN','RPAREN',
)

Tokens

t_PLUS = r\+'
t_MINUS = r\-'
t_TIMES = r*'
t_DIVIDE = r\/'
t_EQUALS = r\='
t_LPAREN = r\(
t_RPAREN = r\)
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
 r\d+'
 t.value = int(t.value)
 return t

Ignored characters
t_ignore = " \t"

def t_newline(t):
 r\n+'
```



```

t.lexer.lineno += t.value.count("\n")

def t_error(t):
 print("Illegal character '%s'" % t.value[0])
 t.lexer.skip(1)

Build the lexer
import ply.lex as lex
lex.lex()

Precedence
rules for the arithmetic operators
precedence = (
 ('left','PLUS','MINUS'),
 ('left','TIMES','DIVIDE'),
 ('right','UMINUS'),
)

dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
 'statement : NAME EQUALS expression'
 names[p[1]] = p[3]

def p_statement_expr(p):
 'statement : expression'
 print(p[1])

def p_expression_binop(p):
 '''expression : expression PLUS expression
 | expression MINUS expression
 | expression TIMES expression
 | expression DIVIDE expression'''
 if p[2] == '+': p[0] = p[1] + p[3]
 elif p[2] == '-': p[0] = p[1] - p[3]
 elif p[2] == '*': p[0] = p[1] * p[3]
 elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
 'expression : MINUS expression %prec UMINUS'
 p[0] = -p[2]

def p_expression_group(p):
 'expression : LPAREN
expression RPAREN'
 p[0] = p[2]

```

```

def p_expression_number(p):
 'expression : NUMBER'
 p[0] = p[1]

def p_expression_name(p):
 'expression : NAME'
 try:
 p[0] = names[p[1]]
 except LookupError:
 print("Undefined name '%s'" % p[1])
 p[0] = 0

def p_error(p):
 print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
 try:
 s = raw_input('calc > ') # use input() on Python 3
 except EOFError:
 break
 yacc.parse(s)

```

## Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page

at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

Found in path(s):

```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/README.md
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* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/ply/cpp.py
```

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```

```
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/ply/yacc.py
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* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/example/GardenSnake/GardenSnake.py
```

## 1.72 pexpect 4.8.0

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## 1.76 libssh 0.8.9

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Any executables

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```
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```

```
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```
LGPL
LGPL
LGPL
```

## 1.80 gmp 6.2.1

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## 1.81 google-test 1.11.0

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Because of this blurred distinction, using the ordinary General

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(For example, a function in a library to compute square roots has

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.90 grep 3.7

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## 1.92 ncurses 6.3

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```
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```

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```
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- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S
- cipher/sha512-ssse3-i386.c

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- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

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## 1.94 i2c-tools 4.3

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```
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```
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```

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

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Ty Coon, President of Vice
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## 1.95 common-base 1.0

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Found in path(s):

```
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/commandd/tests/__init__.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/mq_coroutine_server.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/commandd/tests/test.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/socket_util.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/asa_provisoner_service_provider.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/transfer_proto/base_transfer_proto.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/log.py
*
/opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/diagnostic_archive_util.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/db_version_util.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/multi_connect_coroutine_client.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/base_conf.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/enum.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/daemon.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/transfer_proto/tftp.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/upgrade_base/upgrade_server.py
*
/opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/mq_server.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/mq_coroutine_client.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/base_message_client.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/name_server.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/mq_client.py
```

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/provisioner\_service.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/transfer\_proto/http.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/tests/tests\_asa\_provisioner\_service\_provider.py

\*

/opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/util/encryption\_util.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/upgrade\_base/\_\_init\_\_.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/nameservice.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/commandd/client.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/provisioner\_events.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/util/product.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/common.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/multi\_connect\_base.py

\*

/opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/upgrade\_base/upgrade\_client.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/transfer\_proto/\_\_init\_\_.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/base\_message\_server.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/commandd/\_\_init\_\_.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/name\_svc\_util.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/util/auth\_util.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/util/clear\_password\_fields.py

\*

/opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/util/console\_util.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/commandd/daemon.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/transfer\_proto/ftp.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/multi\_connect\_client.py

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-

1.0/common\_base/commandd/base.py

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/opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/common.pyo: binary file matches

/opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common\_base/messageq/multi\_connect\_base.pyo: binary file matches

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\* /bin/grep

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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):

\* /opt/cola/permits/1236002008\_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/EGG-INFO/PKG-INFO

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## 1.98 libseccomp 2.5.3

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## 1.99 shared-mime-info 2.1

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#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

```
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
```

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

Found in path(s):

```
* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/include/pw.h
```

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

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

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\*  
\*/

Found in path(s):

\* /opt/cola/permits/1273716988\_1648046860.0/0/pw-tar/pw/include/pw\_defs.h  
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Found in path(s):

\* /opt/cola/permits/1273716988\_1648046860.0/0/pw-tar/pw/Makefile.bin  
No license file was found, but licenses were detected in source scan.

/\*

\* pw.c

\*

\* AAA password routines, adopted from IOX

\*

\* January 2005, Naiming Shen

\* July 2005, Craig MacFarlane

\*

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\*

\*-----

\* pw.c -- password encryption/decryption routines

\*

\* May 08 2000, Mark Eklund

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\*/

Found in path(s):

\* /opt/cola/permits/1273716988\_1648046860.0/0/pw-tar/pw/src/pw.c  
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/\*

\* pw\_const.tph

\*

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\*/

@DIRECTIVES{



```

 auto_import_stg = false;
 skip_auto_tdl_include = true;
}@

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

@TDL{
 import "pw_const.tdl"
}@

@CODE{

#ifdef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

 $constant_generate()$

#endif /* __TDLC_GEN_PW_CONST_H__ */

}@

Found in path(s):
* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/include/pw_const.tph

```

## 1.105 glibc 2.35

### 1.105.1 Available under license :

```

@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

```

```

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

```

```

@display
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```

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```

@end display

```

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## 1.113 lua 5.4.4

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## 1.114 libnsl 1.3.0

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Version 2.1, February 1999

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Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>  
Source: <https://github.com/thkukuk/libnsl>

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config.h.in  
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Makefile.am  
NEWS  
README  
src/Makefile.am  
src/do\_ypcall.c  
src/internal.h  
src/libnsl.map  
src/nisplus/nis\_error.c  
src/taddr2host.c  
src/taddr2ipstr.c  
src/taddr2port.c  
src/yp\_first.c  
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src/yp\_maplist.c  
src/yp\_master.c

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src/yperr\_string.c  
src/ypprot\_err.c

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Files: src/libc-lock.h

src/nisplus/nis\_add.c  
src/nisplus/nis\_addmember.c  
src/nisplus/nis\_call.c  
src/nisplus/nis\_callback.c  
src/nisplus/nis\_checkpoint.c  
src/nisplus/nis\_clone\_dir.c  
src/nisplus/nis\_clone\_obj.c  
src/nisplus/nis\_clone\_res.c  
src/nisplus/nis\_creategroup.c  
src/nisplus/nis\_defaults.c  
src/nisplus/nis\_destroygroup.c  
src/nisplus/nis\_domain\_of.c  
src/nisplus/nis\_domain\_of\_r.c  
src/nisplus/nis\_file.c  
src/nisplus/nis\_findserv.c  
src/nisplus/nis\_free.c  
src/nisplus/nis\_getservlist.c  
src/nisplus/nis\_hash.c  
src/nisplus/nis\_intern.h  
src/nisplus/nis\_ismember.c  
src/nisplus/nis\_local\_names.c  
src/nisplus/nis\_lookup.c  
src/nisplus/nis\_mkdir.c  
src/nisplus/nis\_modify.c  
src/nisplus/nis\_ping.c  
src/nisplus/nis\_print.c  
src/nisplus/nis\_print\_group\_entry.c  
src/nisplus/nis\_remove.c  
src/nisplus/nis\_removemember.c  
src/nisplus/nis\_rmdir.c  
src/nisplus/nis\_server.c  
src/nisplus/nis\_subr.c  
src/nisplus/nis\_table.c  
src/nisplus/nis\_util.c  
src/nisplus/nis\_verifygroup.c  
src/nisplus/nis\_xdr.c  
src/nisplus/nis\_xdr.h  
src/rpcsvc/nislib.h

src/rpcsvc/ypclnt.h  
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Files: src/rpcsvc/nis\_callback.h

src/rpcsvc/nis\_callback.x  
src/rpcsvc/nis\_object.x  
src/rpcsvc/nis\_tags.h  
src/rpcsvc/nis.h  
src/rpcsvc/nis.x  
src/rpcsvc/yp.h  
src/rpcsvc/yp.x  
src/rpcsvc/yp\_prot.h  
src/rpcsvc/yppasswd.h  
src/rpcsvc/yppasswd.x  
src/rpcsvc/ypupd.h  
src/yp\_xdr.c

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Files: Makefile.in

src/Makefile.in

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Files: acllocal.m4

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Files: config.sub

config.guess

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Files: configure

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Files: compile

depcomp  
missing  
test-driver

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Files: install-sh

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Files: ltmain.sh

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Files: config.rpath

m4/gettext.m4

m4/host-cpu-c-abi.m4

m4/iconv.m4

m4/intlmacosx.m4

m4/lib-ld.m4

m4/lib-link.m4

m4/lib-prefix.m4

m4/libtool.m4

m4/ltoptions.m4

m4/ltsugar.m4

m4/ltversion.m4

m4/lt~obsolete.m4

m4/nls.m4

m4/po.m4

m4/progtest.m4

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permissive-autoconf-m4

Files: ABOUT-NLS

po/Makefile.in.in

po/Makevars

po/POTFILES.in

po/Rules-quot

po/boldquot.sed

po/en@boldquot.header

po/en@quot.header

po/insert-header.sin

po/libnsl.pot

po/quot.sed

po/remove-potcdate.sin

po/stamp-po

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
 <xsl:text>
</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '
')"/>
 <xsl:if test="translate($rest, '	 ', '')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
 <xsl:text>
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 </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="db:year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="db:holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 </xsl:with-param>
 </xsl:call-template>
 </xsl:variable>

```

```
</xsl:for-each>
<xsl:value-of
select="$isc.copyright.text"/>
 </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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## 1.117 ethtool 5.16

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This is free software, and you are welcome to redistribute
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under certain conditions; type `show c' for details.
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```

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## 1.124 tdb 1.46.5

## 1.124.1 Available under license :

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

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

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

```

#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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```

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

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
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Gadi Oxman, August 1995

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```
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```

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```

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```
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```

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```
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```

```
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Theodore Ts'o  
23-June-2007

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```

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

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

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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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```

Found in path(s):

```
* /opt/cola/permits/1340299110_1683898707.282836/0/mdadm-4-1-1-x86-64-pkg-tar-
xz/usr/lib/systemd/system/mdadm-grow-continue@.service
* /opt/cola/permits/1340299110_1683898707.282836/0/mdadm-4-1-1-x86-64-pkg-tar-
xz/usr/lib/systemd/system/mdmonitor.service
* /opt/cola/permits/1340299110_1683898707.282836/0/mdadm-4-1-1-x86-64-pkg-tar-
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```
* /opt/cola/permits/1340299110_1683898707.282836/0/mdadm-4-1-1-x86-64-pkg-tar-
xz/usr/share/man/man5/mdadm-conf-5-gz/mdadm.conf.5
* /opt/cola/permits/1340299110_1683898707.282836/0/mdadm-4-1-1-x86-64-pkg-tar-xz/usr/share/man/man4/md-
4-gz/md.4
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```
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xz/usr/share/man/man8/mdadm-8-gz/mdadm.8
```

## 1.126 smartmontools 7.3

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Constant-time SSSE3 AES core implementation.
version 0.1

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## 1.130 findutils 4.9.0

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## 1.132 lvm2 2.03.11

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## 1.136 parson 1.1.3

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# 1.137 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)  
svn://gcc.gnu.org/svn/gcc/ (for prereleases)  
ftp://sourceware.org/pub/newlib/ (for newlib)  
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	
Objective C++	gobjc++-10		
Modula-2	gm2-10	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-10-dbg	libstdc++6-10-pic	
D	libphobos-10-dev			

Additional packages include:

All languages:

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

Ada:

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

C:

cpp-10, cpp-10-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library  
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can

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

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Version 3.1, 31 March 2009

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Written by Tobias Burnus <burnus@net-b.de>

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- \* Cygnus Support, drepper@cygnus.com.

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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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gcc/m2:

gcc/m2/gm2-libiberty:

gcc/m2/mc-boot/:

gcc/m2/mc-boot-ch/:

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gcc/m2/gm2-libs:

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gcc/m2/gm2-libs-ch:

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gcc/m2/gm2-libs-iso/\*.def:

Library module defined by the International Standard  
Information technology - programming languages  
BS ISO/IEC 10514-1:1996E Part 1: Modula-2, Base Language.

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gcc/testsuite/gm2/:

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libgm2/libpim/:

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libgm2/libcor/:

libgm2/libmin/:

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# 1.141 python-certifi 2021.10.8

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<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 \$

## 1.142 pyyaml 6.0

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## 1.143 rng-tools 6.15

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

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

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

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

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a) Accompany

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b) Use a suitable shared library mechanism for linking with the

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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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## 1.146 libusb 1.0.26

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Version 2.1, February 1999

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

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(For example, a function in a library to compute square roots has

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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

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

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

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

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

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

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

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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.

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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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The former contains code derived from the library, while the latter only works together with the library.

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

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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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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# 1.149 xz 5.2.6

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# 1.150 coreutils 9.0

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# 1.151 libusb-compat 0.1.7

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misc/unix/getopt.c,  
file\_io/unix/mktemp.c, strings/apr\_strings.c:

```
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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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## 1.158 libffi 3.4.4

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- \* Small patch to handle trailing slashes in --proto\_path flag.

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- \* Small patch to fix Python CallMethod().

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- \* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>

- \* VI syntax highlighting tweaks.
- \* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

- \* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>

- \* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>

- \* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

- \* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

- \* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>

- \* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

Wink Saville <wink@google.com>

- \* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- \* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- \* 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)

Nipunn Koorapati <nipunn1313@gmail.com>

- \* Provide a type alias field ValueType on EnumTypeWrapper
- \* Match service argument names to abstract interface

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seems to be an unavoidable mess.

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## 1.161 boost 1.81.0

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## 1.164 pam-ldap 184

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## 1.165 libidn 2.3.2

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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:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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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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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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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

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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
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## 1.167 libtool 2.4.7

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```

```
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file\_io/unix/mktemp.c, strings/apr\_strings.c:

/\*

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

```

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```

From dso/aix/dso.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From test/CuTest.c, test/CuTest.h:

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```

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Because

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# 1.175 binutils 2.38

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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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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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.

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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.

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

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

+++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

Keith

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many

small  
bug fixes and configuration enhancements.

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

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

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

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

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

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

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

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# 1.176 rdma-cm 33.0

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Upstream-Name: rdma-core

Upstream-Contact: Doug Ledford <dledford@redhat.com>,  
Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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

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

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

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The "Library", below, refers to any such software library or work



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

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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

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

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## TERMS AND CONDITIONS

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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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#### 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

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

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical

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

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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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Version 3, 29 June 2007

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

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

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

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

@c man end

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@end ignore

@node Copying

@c man begin DESCRIPTION

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@center Version 3, 29 June 2007

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@item

Convey the object code in, or embodied in, a physical product

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@item

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@item

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## 1.178 sysv-init 3.01

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## 1.182 Ildpd 1.0.16

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## 1.184 fdisk 2.37.4

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2	7680	16383	8704	4.3M		8f8378c0-02
5	7936	12799	4864	2.4M		
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```
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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.

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\* 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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Because

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# 1.189 python-six 1.14.0

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# 1.190 bind 9.18.11

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The development of Dynamically Loadable Zones



(DLZ) for Bind 9 was  
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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.

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\* 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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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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# 1.196 newt 0.52.23

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## 1.199 busybox 1.35.0

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

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

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

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.2	2.1.1	2002	PSF	yes
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#

# This is a Makefile stub which handles the creation of BSD shared # libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#



all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LD\_FLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's/lib/;`/\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LD\_CONFIG)

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

-

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Gadi Oxman, August 1995

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Theodore Ts'o  
23-June-2007

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```
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```

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

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

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

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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## 1.210 rsync 3.2.5

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```
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```

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```
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```

```
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Ty Coon, President of Vice
```

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```
#!/usr/bin/env bash
MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
This script will read the license file into memory, strip out the copyright, and then
```

```

generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
local FILE="$1"

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

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

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

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

Replace multiple spaces with a single space
local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

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

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

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

Output the MD5 sum
echo "$MD5SUM"
}

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

Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

```

;9GimCN7g

!"#\$%&'()\*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()\*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^\_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@

WEV[B "1

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====

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# 1.213 gzip 1.12

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## 1.217 dnsmasq 2.87

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/opt/cola/permits/1823197106_1701104632.8919835/0/docker-20-10-17-tgz/docker/docker-init: binary file matches
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Upstream-Contact: Doug Ledford <dledford@redhat.com>,

Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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## 1.221 libbacktrace 10.3.0

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DRuntime: Runtime Library for the D Programming Language

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## 1.222 cracklib 2.9.8

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Version 2.1, February 1999

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[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

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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  
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>> it was enough to just get it consistent and documented as to what  
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> GPL-2 ... it was a modified artistic license ... i didnt notice the  
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> 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.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623  
for <nneul@umn.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.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umn.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

## 1.223 pam 1.5.2

### 1.223.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE  
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.  
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA  
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of this license document, but changing it is not allowed.

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

#### Preamble

The licenses for most software are designed to take away your  
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free software--to make sure the software is free for all its users.

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specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who  
decide to use it. You  
can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations  
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

^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.

^L

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

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

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete

corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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 with any other library facilities. This must be distributed under the terms of the Sections above.

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

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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^L

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## 1.226 python-setuptools 65.5.0

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#### A. HISTORY OF THE SOFTWARE

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



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

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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2.1.1	2001-now	PSF		yes

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# 1.230 pcre 8.45

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## THE BASIC LIBRARY FUNCTIONS

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## 1.231 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 Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes

2.3.2	2.3.1	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities  
(CA). These were automatically extracted from Mozilla's root certificates  
file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.  
Just configure this file as the SSLCACertificateFile.#

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## 1.232 libtasn 4.16.0

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

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the work with the complete corresponding

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

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

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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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- 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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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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Version 3, 29 June 2007

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The

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## 1.236 qemu 6.2.0

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 \*/

```
{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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```

```

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{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
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{
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{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstatfs, "freebsd11_fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },

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{ 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_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
"freebsd11_fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatfs, "freebsd11_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_futimens, "futimens", "%s(%d,%p)", 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_freebsd11_getdirentries, "freebsd11_getdirentries", 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_freebsd11_getfsstat, "freebsd11_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_getrandom, "getrandom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ 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 },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\\\", \"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\\\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
"freebsd11_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_mknodat, "mknodat", "%s(%d, \"%s\\\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\\\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\\\", %o, %x)", NULL,
NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%x, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
"msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\\\", %x, %o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\\\", %x, %o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\\\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
"posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
"rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", 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 },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
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{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ 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_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_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, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", 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 },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
NULL },

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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```
SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
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==> edk2/License-History.txt <==

License-History.txt

=====

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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.

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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](https://bugzilla.tianocore.org/show_bug.cgi?id=629)

\* April 9, 2019

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-----  
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-----

=====  
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=====

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1. Create a change description in the format specified below to use in the source control commit log.
  2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
  3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.1 The "TianoCore Contribution Agreement" is included below in this document.
  4. Submit your code to the TianoCore project using the process



that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message ==
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

```

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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= Code Contributions =  
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1. Create a change description in the format specified below to

- use in the source control commit log.
- 2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
- 3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.

For example: Contributed-under: TianoCore Contribution Agreement 1.0  
 The "TianoCore Contribution Agreement" is included below in this document.

- 4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
- 5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
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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 identifier 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" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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John R. Hauser  
2018 January 20

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 \*/

```
if not have_bsd_user
 subdir_done()
endif

bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))

Pull in the OS-specific build glue, if any
subdir(targetos)
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
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```
Linus Torvalds
bsd_user_ss.add(files(
'os-sys.c',
))
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```
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```
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```

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## 1.239 sudo 1.9.13p3

### 1.239.1 Available under license :

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, send a note to [sudo@sudo.ws](mailto: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, Piet  
Brown, Jerry

Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon,  
Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jindrak, Jaroslav  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura



Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
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  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott,  
Dougal  
Shand, Will  
Sieger, Nick  
Simon, Thor Lancelot  
Skoll, Dianne  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren

Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

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

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin

Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Doghonadze, Temuri  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
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\*

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\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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\* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT

\* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT

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<http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm>

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include/bsd/vis.h  
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man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
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src/arc4random\_uniform.c

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Because of this blurred distinction, using the ordinary General Public License for libraries did

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(For example, a function in a library to compute square roots has

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#### Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1990  
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That's all there is to it!

## 1.258 libvirt 8.1.0

### 1.258.1 Available under license :

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

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

root function must still compute square roots.)

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

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

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.

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

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

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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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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pycparser -- A C parser in Python

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## 1.272 python3-pyopenssl 22.0.0

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## 1.274 python3-ptyprocess 0.7.0

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## 1.275 python3-pycparser 2.21

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pycparser -- A C parser in Python

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## 1.276 python3-pysocks 1.7.1

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## 1.280 multipart-parser-c NA

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*/
```

Found in path(s):

```
* /opt/cola/permits/2042810738_1717658686.063576/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h
* /opt/cola/permits/2042810738_1717658686.063576/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c
```

## 1.281 openssl 1.1.1y

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```
/*

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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```

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```
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```

```
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

```
*/
```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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//curl

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```

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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
XX
X
 This file is generated from xml source: DO NOT EDIT
XX
X
 -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link
href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"></div>
<div id="path">
Apache > HTTP Server > Documentation > Version 2.4</div><div id="page-
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```
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```

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</div>

</div>

<div class="bottomlang">

<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>

</div><div class="top"><a href="#page-header"></a></div><div

class="section"><h2><a id="comments\_section" name="comments\_section">Comments</a></h2><div

class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments

placed here should be pointed towards suggestions on improving the documentation or server, and may be removed  
again by our moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage  
the Apache HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a

href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>

<script type="text/javascript"><!--><![CDATA[//><!--

var comments\_shortcode = 'httpd';

var comments\_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments\_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show\_comments.lua?site=' + comments\_shortcode + '&page=' +

comments\_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments\_thread">Comments are disabled for this page at the moment.</div>');

}

})(window, document);

//><![></script></div><div id="footer">

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href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>

<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a

href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a

href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[//><!--

```
if (typeof(prettyPrint) !== 'undefined') {
 prettyPrint();
}
//--><![]></script>
</body></html>
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```

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```
#####
##Parson License
#####
```



/\*

Parson ( <http://kgabis.github.com/parson/> )

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##http-parser license

#####

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# 1.282 aplib 1.0

## 1.282.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/kw_unpack.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/interface.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/ip.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/__init__.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/graph.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/translation.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/__init__.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/dict_utils.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/rebuild.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/edge.py
*
/opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/exceptions.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/range.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/exceptions.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/vertex.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/process.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/typed.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/enum.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/rfc_2822_parse.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/msgid_utils.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/rfc_2821_parse.py
*
/opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/tb.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/mask.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/test/test_oriented_graph.py
```

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

Metadata-Version: 1.0

Name: aplib

Version: 1.0.0-000

Summary: UNKNOWN

Home-page: UNKNOWN

Author: UNKNOWN

Author-email: UNKNOWN

License: UNKNOWN

Description: UNKNOWN

Platform: UNKNOWN

Found in path(s):

\* /opt/cola/permits/2058106748\_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/EGG-INFO/PKG-INFO

# 1.283 common-base3 1.0

## 1.283.1 Available under license :

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/opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/common.pyo: binary file matches

/opt/cola/permits/2058106348\_1737054431.7368672/0/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

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Found in path(s):

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/provisioner\_service.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/util/diagnostic\_archive\_util.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/util/enum.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/upgrade\_base/\_\_init\_\_.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/util/product.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/commandd/tests/test.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/nameservice.py

\*

/opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/transfer\_proto/ftp.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/transfer\_proto/\_\_init\_\_.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/transfer\_proto/tftp.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/base\_message\_server.py

\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-

1.0/common\_base/messageq/mq\_coroutine\_server.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/util/base\_conf.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/multi\_connect\_client.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/util/log.py  
\*  
/opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/util/encryption\_util.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/multi\_connect\_base.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/commandd/daemon.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/util/clear\_password\_fields.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/util/socket\_util.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/mq\_client.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/upgrade\_base/upgrade\_server.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/provisioner\_events.py  
\*  
/opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/mq\_coroutine\_client.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/name\_svc\_util.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/transfer\_proto/base\_transfer\_proto.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/commandd/base.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/mq\_server.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/upgrade\_base/upgrade\_client.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/multi\_connect\_coroutine\_client.py  
\*  
/opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/tests/tests\_asa\_provisioner\_service\_provider.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/util/product.py.orig  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/messageq/asa\_provisioner\_service\_provider.py  
\* /opt/cola/permits/2058106348\_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common\_base/transfer\_proto/http.py

```
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/tests/__init__.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/name_server.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/common.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/auth_util.py
*
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/daemon.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/__init__.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/console_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/base_message_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/db_version_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/client.py
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):
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/EGG-INFO/PKG-INFO
```

## 1.284 shrapnel 1.0

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```
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granted, provided that the above copyright notice appear in all
eGroups not be used in advertising or publicity pertaining to
```

Found in path(s):

\* /opt/cola/permits/2058107187\_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/backdoor.py

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

Metadata-Version: 1.0

Name: shrapnel

Version: 1.0.0-000

Summary: UNKNOWN

Home-page: UNKNOWN

Author: UNKNOWN

Author-email: UNKNOWN

License: UNKNOWN

Description: UNKNOWN

Platform: UNKNOWN

Found in path(s):

\* /opt/cola/permits/2058107187\_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/EGG-INFO/PKG-INFO

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

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Found in path(s):

\* /opt/cola/permits/2058107187\_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/process.py

\* /opt/cola/permits/2058107187\_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/socket.py

\* /opt/cola/permits/2058107187\_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/optional.py

\* /opt/cola/permits/2058107187\_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/threading.py

\* /opt/cola/permits/2058107187\_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/\_\_init\_\_.py

\* /opt/cola/permits/2058107187\_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/thread.py

# 1.285 qed-drv 8.59.10.0

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## 1.286 qede-driv 8.59.10.0

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\* spirom.c - SPI ROM client driver

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## 1.290 expect 5.45.4

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The

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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

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```
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```

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```
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under certain conditions; type `show c' for details.
```

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## 1.294 tomcat-connectors 1.2.40

### 1.294.1 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/HTTP/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/HTTP/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/HTTP/A/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/HTTP/A/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/HTTP/A/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/HTTP/A/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/HTTPPA/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/HTTPPA/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/HTTPPA/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/HTTPPA/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/HTTP/A/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/HTTP/A/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/HTTP/A/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/HTTP/A/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/HTTPPA/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/HTTPPA/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/HTTPPA/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_SOCKETBUF 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/QSRVSR) +
SRCMBR(MOD_JK) +
USRPRF(*USER) +
BNDSRVPGM(QHTTSPVR/QZSRAPR QHTTSPVR/QZSRCORE +
QHTTSPVR/QZSRXMLP QHTTSPVR/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
!IFDEF 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=/1 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)
```

Apache Tomcat Connectors

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From native/common/ap\_snprintf.c:

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

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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 = \
$(NOVELLIBC)/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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```

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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/HTTPPA/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/HTTPPA/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/HTTP/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/HTTP/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/HTTP/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/HTTP/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/HTTP/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/HTTP/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/HTTP/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/HTTP/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/HTTP/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/HTTP/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/HTTP/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/HTTPPA/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/HTTPPA/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/HTTPPA/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/HTTPPA/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/HTTP/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/HTTP/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/HTTP/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_SOCKETBUF 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/QSRVSR) +
 SRCMBR(MOD_JK) +
 USRPRF(*USER) +
 BNDSRVPGM(QHTTSPVR/QZSRAPR QHTTSPVR/QZSRCORE +
 QHTTSPVR/QZSRXMLP QHTTSPVR/QZSRSDBM) +
 TEXT('Apache Tomcat mod_jk connector module')

ENDPGM

```

## 1.295 libtomcrypt 1.17

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Tom St Denis

## 1.296 libtommath 0.42.0

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# 1.297 perf 1.0

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# 1.298 fbset-modes 0.1.0

## 1.298.1 Available under license :

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```
/*
* Linux Frame Buffer Device Configuration
*
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* (Geert.Uytterhoeven@cs.kuleuven.ac.be)
*
* -----
*
* This file is subject to the terms and conditions of the GNU General Public
* License. See the file COPYING in the main directory of the Linux
* distribution for more details.
*
* Petr Vandrovec <vandrove@vc.cvut.cz>:
* -grayscale, -rgba, -nonstd, VGA modes reporting
```

```
*
* Brad Midgley <brad@exodus.pht.com>:
* -match
*
*/
```

Found in path(s):

```
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/fbset.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* Linux Frame Buffer Device Configuration
*
* Copyright 1995-1998 by Geert Uytterhoeven
* (Geert.Uytterhoeven@cs.kuleuven.ac.be)
*
* -----
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* distribution for more details.
*/
```

Found in path(s):

```
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/fbset.h
No license file was found, but licenses were detected in source scan.
```

```
/*
* Linux Frame Buffer Device Configuration
*
* Copyright 1995-1998 by Geert Uytterhoeven
* (Geert.Uytterhoeven@cs.kuleuven.ac.be)
*
* -----
*
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* distribution for more details.
*/
```

Found in path(s):

```
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/modes.y
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/modes.l
No license file was found, but licenses were detected in source scan.
```

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Found in path(s):

# 1.299 gdbm 1.23

## 1.299.1 Available under license :

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Version 3, 29 June 2007

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# 6572217a0e71fdc13c9ea5571203187f383665e

# 0

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## 1.305 pam-radius 2.0.0

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iotop - interactive monitor of Linux IO activity

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## 1.307 usleep 1.0

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## 1.308 kbd 2.4.0

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

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

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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
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## 1.311 icu 70.1

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---

layout: default  
title: Legalities  
parent: Release & Milestone Tasks  
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```
-makefile-
```

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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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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
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lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.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  
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  
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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

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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  
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## 1.315 wsgiref 0.1.2

### 1.315.1 Available under license :

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Metadata-Version: 1.0

Name: wsgiref

Version: 0.1.2

Summary: WSGI (PEP 333) Reference Library

Home-page: <http://cheeseshop.python.org/pypi/wsgiref>

Author: Phillip J. Eby

Author-email: [web-sig@python.org](mailto:web-sig@python.org)

License: PSF or ZPL

Description: This is a standalone release of the ``wsgiref`` library to be included in  
Python 2.5. For the standalone version's documentation, see:

HTML

[http://peak.telecommunity.com/wsgiref\\_docs/](http://peak.telecommunity.com/wsgiref_docs/)

PDF

<http://peak.telecommunity.com/wsgiref.pdf>

Platform: UNKNOWN

Found in path(s):

\* /opt/cola/permits/2162651583\_1724840229.8275998/0/wsgiref-0-1-2-zip/wsgiref-0.1.2/PKG-INFO

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## 1.316 init-ifupdown 1.0

### 1.316.1 Available under license :

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## 1.317 tipc-utils

## 2.2.0+gitAUTOINC+7ab2211b87

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```
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*
* server_tipc.c
*
* Short description: TIPC stream demo (server side)
*
* -----
```

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7ab2211-1-master-tar-gz/demos/stream_demo/server_tipc.c
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```

```

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*
* client_tipc.c
*
* Short description: TIPC hello world demo (client side)
* -----
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* -----
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```

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*
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* 7ab2211-1-master-tar-gz/demos/hello_world/client_tipc.c
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* server_tipc.c
*
* Short description: TIPC benchmark demo (server side)
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```

/* -----
*
* tipc_ts_adapt.h
*
* Short description: Portable TIPC Test Suite -- wrapper declarations for Linux
*
* -----
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* -----
*/

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7ab2211-1-master-tar-gz/ptts/tipc_ts_adapt.h
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```

```

/* -----
*
* server_tipc.c
*
* Short description: TIPC stream demo (server side)
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/\* -----

\*  
\* tipc\_ts\_common.c

\* Short description: Portable TIPC Test Suite -- common client+server routines

\*  
\* -----

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/\* -----

\*

\* client\_tipc.c

\*

\* Short description: TIPC multicast demo (client side)

\*

\* -----

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\*/

Found in

path(s):

\*/opt/cola/permits/2175989091\_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/multicast\_demo/client\_tipc.c

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/\* -----

\*

\* client\_tipc.c

\*

\* Short description: TIPC subscription demo (client side)

\*

\* -----

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*
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```

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```
/* -----
*
* tipc_ts_server_linux.c
```

```
* Short description: Portable TIPC Test Suite -- server wrapper for Linux
```

```
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```

```
* -----
*/
```

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```
/* -----
*
* client_tipc.c
*
* Short description: TIPC benchmark demo (client side)
*
* -----
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* -----
*/
```

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in path(s):

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```
/* -----
*
* tipcc.h
*
* Short description: TIPC C binding API. The complete TIPC socket API with all
* standard features is available in <linux/tipc.h>
*
* -----
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* Version 0.9.5: Jon Maloy, 2016
*
* -----
*/
```

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```

/* -----
*
* tipc_ts_server.c
*
* Short description: Portable TIPC Test Suite -- common server routines
*
* -----
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*
* -----
*/

```

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7ab2211-1-master-tar-gz/ptts/tipc_ts_server.c

```

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```

/*
* include/uapi/linux/tipc.h: Header for TIPC socket interface
*
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7ab2211-1-master-tar-gz/tipclog/tipc.h

```

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```

/* -----

```

Name: inventory\_sim.c

Short description: TIPC distributed inventory simulation (Linux version)

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#### DESCRIPTION

This file is a demo program that illustrates how TIPC can be used to support distributed applications. It takes advantage of TIPC's socket-based messaging, as well as its port naming and port name subscription capabilities.

The demo is a simulation of a store that stocks a variety of numbered items which are sold to customers upon request. By default, items and customers are created randomly (although there are limits on the number of each that can be present in the store at any given time). From time to time new items are delivered to the store; independently of this, customers enter the store, each looking for a specific item. If a desired item can be obtained before a customer gets tired of waiting for it, a sale is recorded; otherwise, a walk-out is recorded. If multiple customers attempt to obtain the same item, only one succeeds; the others are notified of their failure and try again.

Each item and customer is implemented as a separate task. An item makes itself available by creating a socket whose port name identifies the item number. A customer determines the availability of an item by creating a subscription for the item name and waiting for notification that the item exists; the customer then obtains the item by sending a message to the socket for the item and receiving a successful reply. A logging task is used to record all significant events encountered by the item and customer tasks during the simulation, as well as to display the simulation status and statistics on a

periodic basis.

This simulation is most effective when it is run on multiple CPUs at the same time, which has the effect of creating a network of stores sharing a global inventory. Since the port name published by an item is visible throughout the TIPC cluster, customers are able to obtain items from other CPUs if they are not available locally. The more CPUs involved in the simulation, the more items are available and the less likely a customer will be to walk out of a store because the item they desire is unavailable.

When a simulation is terminated the logging task waits for all customers to leave, then creates a janitor task to dispose of the unsold items that remain. TIPC's name subscription capability allows the janitor to distinguish the items belonging to its own store from those in other stores.

The simulation can be temporarily halted to permit inspection of the various tasks used, or to assist in debugging problems. This is achieved by publishing the name of a virtual item (item 0), which instructs the logging task on each CPU to temporarily suspend processing; this causes all customer and item tasks on the CPU to become blocked when they next attempt to log an event. (Note: Pausing the simulation may result in warning messages from customers about non-responsive items; this is normal behavior resulting from the way the pause capability is implemented, and is no cause for concern.)

The demo gives the user control over the number of item and customer tasks used in the simulation, as well as the ability to increase the speed of processing and to control the amount of output generated. By default, a simulation running at normal speed displays all transaction info, while a simulation running at an accelerated rate displays only the periodic summary. The simulation can also be run in a deterministic manner by creating a store having no items or customers, and then generating individual item and customer tasks manually.

#### Building the demo

-----

The demo is built as a normal TIPC application. The accompanying Makefile builds a "inventory\_sim" executable and creates softlinks to a set of aliases (eg. newSim, killSim, ...) that are used to invoke the main executable to do specific operations.

#### Running the demo

-----

The simulation is run by issuing the following shell commands:

```
newSim [#items [#customers [speed [verbosity]]]]
```

```
- open store
```

killSim           - close store and clean up  
stopSim           - pause simulation of all stores  
startSim          - unpause simulation of all stores  
newItem [item [count]] - create item (repeat as specified)  
newCust [item [count]] - create customer for item (repeat as specified)  
helpSim  
                  - display this menu

A missing (or 0) argument value causes the simulation to choose an appropriate default. In certain cases, an argument value that is < 0 can also be used to disable a specific feature of a command.

The output messages generated by the simulation should be self-explanatory.

#### Examples

-----  
1) Run default simulation: ./newSim  
  
2) Run simulation at 10x normal speed: ./newSim 0 0 10  
  
3) Run simulation manually: ./newSim -1 -1 [create empty store]  
    ./newItem 3 [create item]  
    ./newCust 3 [create customer]  
\*/

Found in path(s):

\* /opt/cola/permits/2175989091\_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tiputils-7ab2211-1-master-tar-gz/demos/inventory\_sim/inventory\_sim.c

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```
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*
* tipc_c_api_client.c
*
* Short description:
* -----
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* -----
*/

```

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```

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```

```

/* -----
*
* common_tipc.h
*
* Short description: TIPC benchmark demo (common definitions and functions)
*
* -----
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7ab2211-1-master-tar-gz/demos/benchmark/common\_tipc.h  
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/\* -----  
\*  
\* tipcc.c  
\*  
\* Short description: TIPC C binding API  
\*  
\* -----  
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\* Version 0.9: Jon Maloy, 2015

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\*

/opt/cola/permits/2175989091\_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-  
7ab2211-1-master-tar-gz/multicast\_blast/tipcc.c

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/\* -----

\*

\* server\_tipc.c

\*

\* Short description: TIPC multicast demo (server side)

\*

\* -----

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/\* -----

\*  
\* tipc\_ts.h

\*  
\* Short description: Portable TIPC Test Suite -- common declarations

\*  
\* -----

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/\* -----  
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\* client\_tipc.c  
\*  
\* Short description: TIPC connection demo (client side)  
\*  
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/opt/cola/permits/2175989091\_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/connection\_demo/client\_tipc.c

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

/\* -----

\*

\* tipc-pipe.c

\*

\* Short description: TIPC CLI utility, similar to netcat.

\*

/\* -----

\*

\* Written by Constantine Shulyupin const@makelinux.com for Compass EOS

\*

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\*

\* A few code is borrowed from tipc demos by

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/\* -----

\*

\* tipc\_ts\_client.c

\*

\* Short description: Portable TIPC Test Suite -- common client routines

\*

\* -----

\*

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```
/* -----
 *
 * server_tipc.c
 *
 * Short description: TIPC connection demo (server side)
 *
 * -----
 *
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 *
 * -----
 */
```

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```
/* -----
*
* server_tipc.c
*
* Short description: TIPC subscription demo (server side)
*
* -----
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*
* -----
*/
```

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```
/* -----
```

```

*
* mcast_tipc.c
*
* Short description: TIPC multicast demo (client side)
*
* -----
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*
* -----
*/

```

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7ab2211-1-master-tar-gz/multicast_blast/group_cast.c
*

```

```

/opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-
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```

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```

/* -----
*

```

```

* server_tipc.c

```

```

*
* Short description: TIPC hello world demo (server side)
* -----
*
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*
* -----
*/

```

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```

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```

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```

/* -----
*
* tipc_c_api_top_subscr.c
*
* Short description:
* -----
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```

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 \* -----  
 \*/

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 7ab2211-1-master-tar-gz/demos/c\_api\_demo/tipc\_c\_api\_top\_subscr.c  
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/\* -----  
 \*  
 \* tipcc.h  
 \*  
 \* Short description: TIPC C binding API. The complete TIPC socket API with all  
 \* standard features is available in <linux/tipc.h>  
 \*  
 \* -----  
 \*  
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\* Version 0.9.3: Jon Maloy, 2015

\*

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 7ab2211-1-master-tar-gz/demos/c\_api\_demo/tipcc.h

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/\* -----

\*

\* tipc\_c\_api\_server.c

\*

\* Short description:

\* -----

\*

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7ab2211-1-master-tar-gz/demos/c\_api\_demo/tipc\_c\_api\_server.c  
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/\* -----

\*  
\* tipc\_ts\_client\_linux.c  
\*  
\* Short description: Portable TIPC Test Suite -- client wrapper for Linux  
\*  
\* -----  
\*  
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## 1.318 base-passwd 3.5.29

### 1.318.1 Available under license :

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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License: GPL-2

Files: passwd.master, group.master

License: PD

X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

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Files: doc/\*

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\* /opt/cola/permits/2175989136\_1725911673.6987453/0/keymaps-1-0-r31-tar-bz2/keymaps-1.0-r31/GPLv2.patch

## 1.326 thread-pool 0.2.5

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```
/* Copyright 2002 Jeff Dike
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```

Found in path(s):

```
* /opt/cola/permits/2175989059_1725911717.9993913/0/tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.c
```

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```
Name: tunctl
Version: 1.5
Release: 1
Summary: Create and remove virtual network interfaces

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):

\* /opt/cola/permits/2175989059\_1725911717.9993913/0/tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.spec

## 1.330 libgcc 11.4.0

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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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## 1.332 libtraceevent 1.8.2

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libtraceevent(3)

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NAME

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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 multiple 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 event'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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## LICENSE

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## RESOURCES

-----

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

## Found

in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-read.txt

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

## 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 endianness, 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

-----

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## LICENSE

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## RESOURCES

-----

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

**\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-create.txt**

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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_prefix)/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)
{
 printf("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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-----

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## RESOURCES

-----

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-plugins.txt

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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 successfully 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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-----

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## RESOURCES

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<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-reg\_event\_handler.txt

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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 occurs - 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 performed 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 occurs - 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 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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<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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**\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-field\_print.txt**

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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

-----  
[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\_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_RESCHEDED_`, 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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## RESOURCES

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\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-record\_parse.txt

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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 updated 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\_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\_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

-----

[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/>

Found in path(s):

**\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-strerror.txt**

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

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\_prefix)/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 be 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

```

[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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\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-set\_flag.txt

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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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\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-endian\_read.txt

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license: 'LGPL-2.1',

Found in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/meson.build

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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\***.

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<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-log.txt

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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

-----

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--

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<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

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\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-reg\_print\_func.txt

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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*(struct 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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\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-long\_size.txt

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

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

-----

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## Found

in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-event\_print.txt

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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

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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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-----

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-----

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

**\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-event\_get.txt**

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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\***.

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## RESOURCES

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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]

--

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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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## 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 filters - `_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

-----

[verse]

--

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

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\*

\*

\* The parts for function graph printing was taken and modified from the

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\* - Copyright (C) 2009 Frederic Weisbecker,

\* Frederic Weisbecker gave his permission to relicense the code to

\* the Lesser General Public License.

\*/

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\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/src/event-parse.c

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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]

--

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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 is 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.

--

## 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/>

Found in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-debug.txt

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

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 formatted string `_fmt_` with variable arguments `..._` in the trace sequence `_s_`.

The `*trace_seq_vprintf()` function puts a formatted 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.
--

```

## 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):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-tseq.txt

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

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>](mailto:linux-trace-devel@vger.kernel.org)

## LICENSE

-----

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## RESOURCES

-----

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

**\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kvm-plugin.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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## RESOURCES

-----

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

**\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-host\_endian.txt**

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

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*.
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/>

Found in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-header\_page.txt

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

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

```

```

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/>

Found in path(s):

```
* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-
1.8.2/Documentation/libtraceevent-kbuffer-timestamp.txt
```

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

```
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*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
```

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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.

--

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## RESOURCES

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\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-file\_endian.txt

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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.

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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 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();
```

...

```
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)**

## 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\_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:[*]_modp_);
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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## RESOURCES

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\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/LICENSES/LGPL-2.1

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

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*(struct 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:[*]_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 compiled 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/>

Found in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent.txt

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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

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## RESOURCES

-----

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

Found in path(s):

\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-

1.8.2/Documentation/libtraceevent-parse-files.txt

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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_oramat 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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-----

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## RESOURCES

-----

<https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/>

### Found

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\* /opt/cola/permits/2187759333\_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-field\_find.txt

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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*`.

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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

-----

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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Julian Seward, [jseward@bzip.org](mailto: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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```
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```

```
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/\*

\* FreeBSD strace list

\*

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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
},
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{ 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 },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
```

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{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl,
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{ 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_accept4, "accept4", "%s(%d,%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_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_get, "cap_fcntls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_limit, "cap_fcntls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_getmode, "cap_getmode", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_get, "cap_ioctls_get", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
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{ 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 },

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{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", 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_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },

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{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getfsstat, "freebsd11_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_getrandom, "getrandom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ 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 },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
"freebsd11_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_mknodat, "mknodat", "%s(%d, \"%s\", %#o, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\", %#o, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\", %#o, %#x)", NULL,
NULL },

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{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
"msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
"posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
"rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },

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{ 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 },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ 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_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_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, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", 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 },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
NULL },

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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-- > 0) {
@@ -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"

ifndef LINUXBIOS\_VERSION

include "io.h"

```

-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansi.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 */
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.
```

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## History

-----

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```

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```
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```

```
{signature of Ty Coon}, 1 April 1989
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```

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David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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John R. Hauser  
2018 January 20

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### Key Dates

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\* August 3, 2017

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<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

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=====  
= Code Contributions =  
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To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
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For example: Contributed-under: TianoCore Contribution Agreement 1.1  
The "TianoCore Contribution Agreement" is included below in this document.
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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'.
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- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
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-----  
-----  
Contributions.txt: TianoCore Contribution Agreement 1.0  
-----

=====  
= Code Contributions =  
=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.

3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0  
The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible,



then contributions using the following licenses can be accepted:

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- \* BSD (3-clause): <http://opensource.org/licenses/BSD-3-Clause>
- \* MIT: <http://opensource.org/licenses/MIT>
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Contributions of code put into the public domain can also be accepted.

Contributions using other licenses might be accepted, but further review will be required.

```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

```
== Sample Change Description / Commit Message =
```

```
=== Start of sample patch email message ===
```

```
From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary
```

```
Full-commit-message
```

```
Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

```

An extra message for the patch email which will not be considered part of the commit message can be added here.

```
Patch content inline or attached
```

```
=== End of sample patch email message ===
```

```
=== Notes for sample patch email ===
```

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

=== Definitions for sample patch email ===

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change.

Each line should be less than ~70 characters.

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- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

=====  
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=====

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purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the TianoCore site or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the TianoCore site for the purpose of discussing and improving the Content, but excluding communication that is conspicuously marked or otherwise designated in writing by You as "Not a Contribution."

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=====  
==> edk2/License.txt <==

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```
==> edk2/License-History.txt <==
 License-History.txt
 =====
```

This file contains the history of license change and contributor's agreement changes.

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### Key Dates

-----  
\* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

### References:

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Complete text of TianoCore Contribution Agreement 1.0 included below

Complete text of TianoCore Contribution Agreement 1.1 included below

Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

TianoCore Bugzilla:

[https://bugzilla.tianocore.org/show\\_bug.cgi?id=629](https://bugzilla.tianocore.org/show_bug.cgi?id=629)

\* April 9, 2019

Replace BSD 2-Clause License with BSD + Patent License removing the need for the TianoCore Contribution Agreement.

References:

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Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html>

<https://lists.01.org/pipermail/edk2-devel/2019-March/037500.html>

TianoCore Bugzilla:

[https://bugzilla.tianocore.org/show\\_bug.cgi?id=1373](https://bugzilla.tianocore.org/show_bug.cgi?id=1373)

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LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN  
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POSSIBILITY OF SUCH DAMAGE.

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Contributions.txt: TianoCore Contribution Agreement 1.1

-----

=====  
= Code Contributions =  
=====

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message

explicitly states that the

contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.

For example: Contributed-under: TianoCore Contribution Agreement 1.1

The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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=====  
= Change Description / Commit Message / Patch Email =  
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

==== Start of sample patch email message ====

From: Contributor Name <contributor@example.com>  
Subject: [Repository/Branch  
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1  
Signed-off-by: Contributor Name <contributor@example.com>  
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'.

For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.

- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

=====  
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=====

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-----  
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Contributions.txt: TianoCore Contribution Agreement 1.0  
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```
=====
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=====
```

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```
== 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 ===
```

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=== Definitions for sample patch email ===

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
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John R. Hauser  
2018 January 20

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```
project('bar', 'c', license: 'Apache-2.0')
```

```
executable('bar', 'bar.c')
```

```
license = meson.project_license()[0]
if license != 'Apache-2.0'
 error("The license should be Apache-2.0, but it is: " + license)
endif
```

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```
bsd_user_ss.add(files(
'os-sys.c',
))
```

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```
if not have_bsd_user
 subdir_done()
endif
```

```
bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))
```

```
Pull in the OS-specific build glue, if any
```

```
subdir(targetos)
```

```
TARGET_ARCH=i386
```

```
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
```

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John R. Hauser  
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Source: <https://www.kernel.org/pub/linux/utils/fs/xfs/xfsprogs/>

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

```

<xsl:param name="text"/>
<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
<xsl:text>
</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '
')"/>
<xsl:if test="translate($rest, '	 ', '')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="db:year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="db:holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
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# 1.348 python-protobuf 3.9.2

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Found in path(s):

```
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/internal/decoder.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/json_format.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/internal/enum_type_wrapper.py
*
/opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/reflection.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/internal/extension_dict.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/internal/wire_format.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/internal/type_checkers.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/internal/api_implementation.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/internal/encoder.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/text_encoding.py
*
/opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/internal/_parameterized.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/message_factory.py
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-
3.9.2/google/protobuf/proto_builder.py
```

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/descriptor\_database.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/well\_known\_types.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/symbol\_database.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/text\_format.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/containers.py  
\*  
/opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/message.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/python\_message.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/message\_listener.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/service\_reflection.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/testing\_refleaks.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/service.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/\_\_init\_\_.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/cpp\_message.py  
\*  
/opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/descriptor\_pool.py  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/descriptor.py  
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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](mailto:protobuf@googlegroups.com)

Maintainer-email: [protobuf@googlegroups.com](mailto:protobuf@googlegroups.com)

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Download-URL: <https://github.com/protocolbuffers/protobuf/releases>

Description: Protocol Buffers are Google's data interchange format

Platform: UNKNOWN

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7

Found in path(s):

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/protobuf.egg-info/PKG-INFO

\*

/opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/PKG-INFO

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\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor\_database.h

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/repeated\_scalar\_container.cc

\*

/opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message\_factory.cc

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message\_factory.h

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/field.cc

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor.h

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message.cc

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor\_pool.cc

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message\_module.cc

\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/unknown\_fields.cc

\*

/opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor.cc  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/repeated\_composite\_container.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/map\_container.cc  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/proto\_api.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/field.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/safe\_numerics.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/unknown\_fields.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor\_containers.cc  
\*  
/opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/api\_implementation.cc  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor\_containers.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/extension\_dict.cc  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/extension\_dict.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/map\_container.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor\_pool.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/repeated\_composite\_container.cc  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/message.h  
\*  
/opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/repeated\_scalar\_container.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/scoped\_pyobject\_ptr.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/python\_protobuf.h  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/internal/python\_protobuf.cc  
\* /opt/cola/permits/2187759444\_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/pyext/descriptor\_database.cc

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```
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/google/protobuf/__init__.py
```

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Found in path(s):

```
* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/setup.py
```

# 1.349 dpdk 22.11.0

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## 1.350 rrdtool 1.8.0

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David Grimes <dgrimes with navisite.com> SQRT/SORT/REV/SHIFT/TREND

David L. Barker <dave with ncomtech.com> xport function bug fixes

Evan Miller <emiller with imvu.com> Multiplicative HW Enhancements

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Henrik Storer <henrik with hswm.dk> functions for min/max values of data in graph

Hermann Hueni <hueni with glue.ch> (SunOS porting)

Jakob Ilves <jilves with se.oracle.com> HPUX 11

Jeff R. Allen <jeff.allen with acm.org> (autoconfigure, portability)

Jeremy Fischer <jeremy with pobox.com> (Makefile changes & RPM builds)

Jess Couto Fandio

Joel Becker <jlbec with raleigh.ibm.com> AIX

Joey Miller <joeym with inficad.com> php3 and php4 bindings

Jost.Krieger

<Jost.Krieger with ruhr-uni-bochum.de>

Kai Siering <kai.siering with mediaways.net>

Kevin Brintnall <kbrint with rufus.net> bugfixes in and additions to rrdcached, including journaling support

Larry Leszczynski <larryl with furph.com>

Mark Plaksin <happy@usg.edu> rrd\_graph\_v

Matt Chambers <matthew.chambers with vanderbilt.edu> --full-size-mode for rrdgraph

Melchior Rabe <rrdtool at mrab.de> -- legend position patch  
McCreary mcreary with xoanon.colorado.edu  
Mike Mitchell <mcm with unx.sas.com>  
Mike Slifcak <slif with bellsouth.net> many rrdtool-1.1.x fixes  
Oleg Cherevko <olwi with icyb.kiev.ua>  
Otmr Lendl <O.Lendl with Austria.EU.net> (lots of bugfixes)  
Pablo Sanchez <pablo at blueoakdb.com> (CDEF vs VDEF)  
Patrick Cherry <patrick with bytemark.co.uk>  
Paul Joslin <Paul.Joslin with sdrc.com>  
Peter Speck <speck with vitality.dk> eps/svg/pdf file format code in rrdtool-1.x  
Peter Stamfest <peter with stamfest.at> initial multi-thread support  
Peter Breitenlohner <peb with  
mppmu.mpg.de> many patches for rrdtool 1.2.x  
Philippe.Simonet <Philippe.Simonet with swisscom.com> (NT porting)  
Poul-Henning Kamp <phk with freebsd.org> CDEF enhancements  
REIBENSCHUH Alfred <alfred.reibenschuh with it-austria.com> AIX  
Radoslaw Karas <rkaras with tyndall.ie>  
Rainer Bawidamann <Rainer.Bawidamann with informatik.uni-ulm.de>  
Roman Hoogant <rhoogant with ee.ethz.ch>  
Ronan Mullally <ronan in 4L.ie>  
Roger J. Meier <roger.meier in terreactive.ch> (arbitrary linelength in rrdtool)  
Russ Wright <rrwright with home.com>  
Sean Summers <sean with Fenstermaker.com> (RPM .spec)  
Selena M Brewington <smbrewin with ichips.intel.com> add\_ds  
Shane O'Donnell <shaneo with opennms.org>  
Simon Leinen <simon with switch.ch>  
Steen Linden <Steen.Linden with ebone.net>  
Sebastian Harl <sh at tokkee.org> debian packaging, rrdcached fixes and enhancements  
Stefan Ludewig <Stefan.Ludewig at exitgames.com> 1.3 WIN32 Port  
Stefan Mueller <s.mueller with computer.org> HP-UX 11  
Steve Harris <steveh with wesley.com.au>  
AIX portability  
Steve Rader <rader with teak.wiscnet.net> (rrd\_cgi debugging and LAST)  
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Travis Brown <tebrown with csh.rit.edu>  
Tuc <ttsg with ttsg.com>  
Ulf Lilleengen <lulf with pvv.ntnu.no> Python binding for 'rrdtool first'  
Ulrich Schilling <schilling with netz.uni-essen.de> AIX  
Wim Heirman <wim.heirman@elis.ugent.be> --units=si option  
Wolfgang Schrimm <wschrimm with uni-hd.de> xport function  
Wrolf Courtney <wrolf with wrolf.net> (HP-UX)  
hendrik visage <hvisage with is.co.za>  
Vytautas Zdanavicius <vytaszd@yahoo.com> -- python argument list expander  
Martin Sperl <rrdtool.martin.sperl.org> (CDEF prediction functions, libdbi)  
Philippe Simonet <philippe.simonet with swisscom.ch> (Windows Binaries)

Alexander Lucke (lucke with dns-net.de) of DNS:NET Internet

Services (www.dns-net.de) <http://rrdtool.org>

Hedley Simons <heds@metahusky.net>

Nicola Worthington <nicolaw@cpan.org>

Wegmann, Christof <Christof.Wegmann@exitgames.com> 1.3/trunk win32 port

RRDTOOL - Round Robin Database Tool

A tool for fast logging of numerical data graphical display  
of this data.

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## 1.352 python3-certifi 2021.10.8

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

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

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

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

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

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

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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# 1.353 libidn 1.36

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# vi: set ft=:

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\*uganda.txt\* For Vim version 9.1. Last change: 2022 Mar 02

VIM REFERENCE MANUAL by Bram Moolenaar

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## SUMMARY

\*iccf\* \*ICCF\*

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<https://iccf-holland.org/>

<https://www.vim.org/iccf/>

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==== end of license ====

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
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=====  
Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the

south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there usually is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that in the past 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. Although AIDS is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.

If you must send a check send it to our Canadian partner:  
<https://www.kuwasha.net/>

Canada: Contact Kuwasha in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. Kuwasha forwards 100% of the money to the project in Uganda. You can

send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Look on their site for information about sponsorship: <https://www.kuwasha.net/>

If you make a donation to Kuwasha you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Amersfoort. This will allow for tax deduction if you live in Holland. ING bank, IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information: <https://iccf-holland.org/germany.html>

Europe: Use a bank transfer if possible. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

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The e-mail address for sending the money to is: [Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

Others: Transfer to this account if possible:  
ING bank: IBAN: NL95 INGB 0004 5487 74  
Swift code: INGBNL2A  
under the name "stichting ICCF Holland", Amersfoort  
Checks are not accepted.

vim:tw=78:ts=8:noet:ft=help:norl:

# 1.355 opkg-utils 0.5.0

## 1.355.1 Available under license :

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The End

# 1.358 inetutils 2.2

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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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WEV @@ WEV[B "1

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x ?"U@,5 @mISmIN<GimCN7g1u|E  
 43mI,5WEV @@ WEV @mImImIAmImImI0mImImI\*mImI  
 A0mImImI...  
 lost+found...

;9GimCN7g

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

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

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 WEV[B "1

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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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## 1.365 mtools 4.0.38

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```

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,  
Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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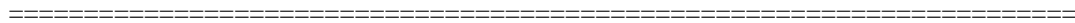
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Files: alocal.m4 package

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This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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-- vile: txtmode file-encoding=utf-8

# 1.378 freeradius 3.0.21

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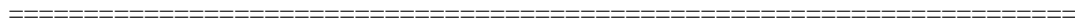
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## 1.380 python-six 1.16.0

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# 1.383 packaging 21.3

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## 1.384 pysocks 1.7.1

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