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libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also

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OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[1] = GPL - GNU General Public License: <http://www.gnu.org/licenses/gpl.html>

[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

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1.5 libxml2 2.9.1

1.5.1 Available under license :

```
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 *
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 *
 * Author: Gary.Pennington@uk.sun.com
 */
/*
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 *
 * Reference: Your favorite introductory book on algorithms
 *
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* \$Id\$

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* <http://ctrio.sourceforge.net/>

*

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*

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 *****/

1.6 sed 4.2.2

1.6.1 Available under license :

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

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/*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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

*/

1.9 libxslt 1.1.28

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1.11 binutils 2.24

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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

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1.12 ncurses 5.9

1.12.1 Available under license :

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tium.

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1.13 kmod 18

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Version 2, June 1991

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1.14 libvirt 1.1.2

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LibVirt : simple API for virtualization

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Daniel Veillard <veillard@redhat.com>

1.15 fuse 2.8.7

1.15.1 Available under license :

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1.16 dhcp 4.3.0

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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-->

<!-- \$Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
version="1.0">

<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="/refentry/docinfo/copyright | /book/bookinfo/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: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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1.17 boost 1.59.0

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost/DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
```

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```

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely

due to Vernon Lee, on machines made available to Rice by IBM.

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

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

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems.

Parag Patel (parag@netcom.com) supplied the A/UX code.

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

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

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

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

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

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code.

Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code.

Al Dosser provided Alpha/OSF/1 code.

He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

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

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

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

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

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

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the

code to save and print call stacks for leak detection on a SPARC.

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

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't

made it into the released version of the collector, yet.)

1.18 iptables 1.4.21

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1.19 diffutils 3.3

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test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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1.20 openssl 1.0.2j

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1.21 libusb 1.0.19

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testing

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- Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
- Mike Iglesias <iglesias@uci.edu> DEC Alpha port
- Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
- Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
- Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpswEEP
- Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
- Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
- Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>
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- Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
- George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
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- Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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- David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
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- Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
- Ray Schnitzler <schnitz@unipress.com> Unixware1 port
- Michael Shields <shields@tembel.org> USNO clock driver
- Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
- Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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- Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
- Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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 <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and
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(see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
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/*

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- */

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*
* $Id$
*/

```

```

#include "db_config.h"

```

```

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

```

```

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

```

```

/*
* __bam_open --
* Open a btree.
*
* PUBLIC: int __bam_open __P((DB *, DB_THREAD_INFO *,
* PUBLIC:   DB_TXN *, const char *, db_pgno_t, u_int32_t));
*/

```

```

int
__bam_open(dbp, ip, txn, name, base_pgno, flags)
DB *dbp;
DB_THREAD_INFO *ip;
DB_TXN *txn;
const char *name;
db_pgno_t base_pgno;
u_int32_t flags;

```

```

{
    BTREE *t;

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

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

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

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

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

```

```

env = dbp->env;
ret = 0;

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

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

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

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

```

```

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

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

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

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

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

if (F_ISSET(&btm->dbmeta, BTM_RENUMBER)) {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

    }
}
#else
if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
    __db_errx(env, DB_STR_A("1017",
        "%s: compression support has not been compiled in", "%s"),
        name);
    return (EINVAL);
}
#endif

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

dbp->blob_threshold = btm->blob_threshold;
GET_BLOB_FILE_ID(env,
    btm, dbp->blob_file_id, ret);
if (ret != 0)
    return (ret);
GET_BLOB_SDB_ID(env, btm, dbp->blob_sdb_id, ret);
if (ret != 0)
    return (ret);
/* Blob databases must be upgraded. */
if (vers == 9 && (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0)) {
    __db_errx(env, DB_STR_A("1207",
        "%s: databases that support blobs must be upgraded.", "%s"),
        name);
    return (EINVAL);
}
#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->pgsize;
    if (F_ISSET(dbp, DB_AM_CHKSUM))
        FLD_SET(meta->dbmeta.metaflags, DBMETA_CHKSUM);
    if (F_ISSET(dbp, DB_AM_ENCRYPT)) {
        meta->dbmeta.encrypt_alg = env->crypto_handle->alg;
        DB_ASSERT(env, meta->dbmeta.encrypt_alg != 0);
        meta->crypto_magic = meta->dbmeta.magic;
    }
    meta->dbmeta.type = P_BTREEMETA;
    meta->dbmeta.free = PGNO_INVALID;
    meta->dbmeta.last_pgno = pgno;

```

```

if (F_ISSET(dbp, DB_AM_DUP))
    F_SET(&meta->dbmeta, BTM_DUP);
if (F_ISSET(dbp, DB_AM_FIXEDLEN))
    F_SET(&meta->dbmeta,
    BTM_FIXEDLEN);
if (F_ISSET(dbp, DB_AM_RECNUM))
    F_SET(&meta->dbmeta, BTM_RECNUM);
if (F_ISSET(dbp, DB_AM_RENUMBER))
    F_SET(&meta->dbmeta, BTM_RENUMBER);
if (F_ISSET(dbp, DB_AM_SUBDB))
    F_SET(&meta->dbmeta, BTM_SUBDB);
if (dbp->dup_compare != NULL)
    F_SET(&meta->dbmeta, BTM_DUPSORT);
#ifdef HAVE_COMPRESSION
if (DB_IS_COMPRESSED(dbp))
    F_SET(&meta->dbmeta, BTM_COMPRESS);
#endif
if (dbp->type == DB_RECNO)
    F_SET(&meta->dbmeta, BTM_RECNO);
memcpy(meta->dbmeta.uid, dbp->fileid, DB_FILE_ID_LEN);

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

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

/*
 * __bam_new_file --
 * Create the necessary pages to begin a new database file.
 *
 * This code appears more complex than it is because of the two cases (named
 * and unnamed). The way to read the code is that for each page being created,
 * there are three parts: 1) a "get page" chunk (which either uses malloc'd
 * memory or calls __memp_fget), 2) the initialization, and 3) the "put page"

```

```

* chunk which either does a fop write or an __memp_fput.
*
* PUBLIC: int __bam_new_file __P((DB *,
* PUBLIC:   DB_THREAD_INFO *, DB_TXN *, DB_FH *, const char *));
*/
int
__bam_new_file(dbp, ip, txn, fh, name)
DB *dbp;
DB_THREAD_INFO *ip;
DB_TXN *txn;
DB_FH *fh;
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) &&
#ifdef (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);
}

```

1.26 cpio 2.11

1.26.1 Available under license :

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Version 3, 29 June 2007

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1.28 bzip2 1.0.8

1.29 slang 2.2.4

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```
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```

```
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```

```
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1.30 dmidecode 3.5

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1.31 coreutils 8.22

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Version 3, 29 June 2007

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

@c End:

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Version 3, 29 June 2007

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1.34 elfutils 0.148

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1.35 rpm 5.4.14

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```
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#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.38 libuv 1.7.4

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*/

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#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS \

uv__io_t event_watcher; \

#define UV_IO_PRIVATE_PLATFORM_FIELDS \

int rcount; \

int wcount; \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: *

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1.46 util-linux 2.24.2

1.46.1 Available under license :

```
7zXZF!t/5]oK3&K6Y^
CP#vMOoYL?6]2z({CLYj0
LFIU<>Q&}7!C}e6]]e`M,J}.dE,4hVmp
RsTk!]r!Quo1OE|FfP+A}XBT9 \<
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g\B!W|j>jf_{JpP]oMd3rfQ+_3<%<6jx{)11D5eg;NtD+~R]w[xiue@F#Em0hu;,,x{R7V2!Vq~AG{EX -
"0h*5x)*x\n)#l$*w!:499X1il:"P+=22cmr3J}/0o9nlB?\N&(q=$pPc!ab,6f&v/RS>O./OW[INy(BM~]~uf$Ng|"_W[0;
OXY[aB**/_U~fQHO(3[b%o )+lq#+_d<QdLd=$1p!h0h6nfN=I+GNRk gKOL3\N3"uGxflC
zCTJtjSN:$gE11QQ$7*5++V=4Xt9V?r3_Vd2o8h"F8~qM,ZI6=Qgtw|11np#_(+?)zp(;H!E2Nz'WW_WmA,
FSYzE*-exTWfT#|
rd>k\R>aXrvXS~"9=U$puaqQb;k,RD5(fu&#
?}w!nz>SbvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%S61opMG
1%QsS|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[
BS=)d ;*!;_>KfB}&ea)F~H#@|DExb
Fw=|
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;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_+T@Uo)2fgYZ
```

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

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*/

1.47 glibc 2.20

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1.50 perl 5.20.0

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The End

abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

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

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Gnomovision version 69, Copyright (C) 19xx name of author
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commands you use may be called something other than `show w' and `show
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program.

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

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

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

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

```
use strict;
```

```
use Config;
```

```
BEGIN { require './test.pl' }
```

```
if ( $Config{usecrosscompile} ) {
```

```
    skip_all( "Not all files are available during cross-compilation" );
```

```
}
```

```
my ($opt) = @ARGV;
```

```
my $readme_year = readme_year();
```

```
my $v_year = v_year();
```

```
# Check that both copyright dates are up-to-date, but only if requested, so
```

```
# that tests still pass for people intentionally working on older versions:
```

```
if ($opt eq '--now')
```

```
{
```

```
    my $current_year = (gmtime)[5] + 1900;
```

```
    is $v_year, $current_year, 'perl -v copyright includes current  
year';
```

```
    is $readme_year, $current_year, 'README copyright includes current year';
```

```
}
```

```
# Otherwise simply check that the two copyright dates match each other:
```

```
else
```

```
{
```

```
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
```

```
}
```

```
done_testing;
```

```
sub readme_year
```

```
# returns the latest copyright year from the top-level README file
```

```
{

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

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

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

$year;
}
```

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

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

$year;
}
```

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That's all there is to it!

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1.51 libgpg-error 1.24

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1.52 rsync 3.1.0

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1.57 fcgi 2.4.1

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1.58 lighttpd 1.4.35

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1.60 popt 1.16

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1.61 zeromq 4.2.5

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wepoll - epoll for Windows

<https://github.com/piscisaureus/wepoll>

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/* Native-dependent code for x86 BSD's.

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#ifndef X86_BSD_NAT_H

```

#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info. */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target. */

template<typename BaseTarget>
class x86bsd_nat_target
: public x86_nat_target<BaseTarget>
{
    using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
    void mourn_inferior () override
    {
        x86_cleanup_dregs ();
        base_class::mourn_inferior ();
    }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */
/* Native-dependent code for modern i386 BSD's.

```

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```

#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions. See definitions. */

```



```
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
      int regnum);
extern void i386bsd_store_inferior_registers
(struct regcache *regcache,
      int regnum);
```

```
/* A prototype *BSD/i386 target. */
```

```
template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
void fetch_registers (struct regcache *regcache, int regnum) override
{ i386bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override
{ i386bsd_store_inferior_registers (regcache, regnum); }
};
```

```
#endif /* i386-bsd-nat.h */
```

```
/* Native-dependent code for modern AMD64 BSD's.
```

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```
#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H
```

```
#include "x86-bsd-nat.h"
```

```
/* Helper functions. See definitions. */
```

```
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
      int regnum);
extern
```

```

void amd64bsd_store_inferior_registers (struct regcache *regcache,
int regnum);

/* A prototype *BSD/AMD64 target. */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
void fetch_registers (struct regcache *regcache, int regnum) override
{ amd64bsd_fetch_inferior_registers (regcache, regnum); }

void store_registers (struct regcache *regcache, int regnum) override
{ amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */

```

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@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).

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@c man begin DESCRIPTION

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@center Version 3, 29 June 2007

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@heading TERMS AND CONDITIONS

@enumerate 0

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presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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@item

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@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item

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@item

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

@item

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

@item

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{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, your program's commands might be different; for a GUI interface, you would use an ``about box".

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@c man end
BEGIN {
FS="\\";

```

print "/* ==> Do not modify this file!! " \
"-*- buffer-read-only: t -*- vi" \
":set ro:";
print " It is created automatically by copying.awk.";
print " Modify copying.awk instead. <== */";
print ""
print "#include \"defs.h\""
print "#include \"command.h\""
print "#include \"gdbcmd.h\""
print ""
print "static void show_copying_command (const char *, int);"
print ""
print "static void show_warranty_command (const char *, int);"
print ""
print "static void";
print "show_copying_command (const char *ignore, int from_tty);"
print "{";
}
NR == 1,/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/ {
if ($0 ~ //)
{
printf " printf_filtered (\"\\n\\n\");\\n";
}
else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\.[ ]*$/ )
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"\\\"\", $i;
printf "%s\\n\\n\");\\n", $NF;
}
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/ {

print "}";
print "";
print "static void";
print "show_warranty_command (const char *ignore, int from_tty);"
print "{";
}
/^[ ]*15\. Disclaimer of Warranty\.[ ]*$/,/^[ ]*END OF TERMS AND CONDITIONS[ ]*$/ {
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
printf " printf_filtered (\"";
for (i = 1; i < NF; i++)
printf "%s\\\"\\\"\", $i;
printf "%s\\n\\n\");\\n", $NF;
}
}
}

```

```

END {
    print "}";
    print "";
    print "void"
    print "_initialize_copying (void)";
    print "{";
    print "  add_cmd (\"copying\", no_set_class, show_copying_command,\";
    print "    _(\"Conditions for redistributing copies of GDB.\");";
    print "    &showlist);";
    print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,\";
    print "    _(\"Various kinds of warranty you do not have.\");";
    print "    &showlist);";
    print "";
    print "  /* For old-timers, allow \"info copying\", etc. */";
    print "  add_info (\"copying\", show_copying_command,\";

    print "    _(\"Conditions for redistributing copies of GDB.\");";
    print "  add_info (\"warranty\", show_warranty_command,\";
    print "    _(\"Various kinds of warranty you do not have.\");";
    print "}";
}
/* BSD Kernel Data Access Library (libkvm) interface.

```

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```

#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"

```

```

#include "value.h"
#include "gdbcore.h"
#include
    "inferior.h"      /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file. */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor. */
static kvm_t *core_kd;

/* Address of process control block. */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
   register state from PCB and supplies it to REGCACHE. */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm. The kvm
   target currently doesn't export any view of the running processes,
   so this represents the kernel task. */
static ptid_t bsd_kvm_ptid;

/* The libkvm target. */

static
const target_info bsd_kvm_target_info = {
    "kvm",
    N_("Kernel memory interface"),
    N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump."),
};

```

```

class bsd_kvm_target final : public process_stratum_target
{
public:
    bsd_kvm_target () = default;

    const target_info &info () const override
    { return bsd_kvm_target_info; }

    void close () override;

    void fetch_registers (struct regcache *, int) override;
    enum target_xfer_status xfer_partial (enum target_object object,
        const char *annex,
        gdb_byte *readbuf,
        const gdb_byte *writebuf,
        ULONGEST offset, ULONGEST len,
        ULONGEST *xfered_len) override;

    void files_info () override;
    bool thread_alive (ptid_t ptid) override;
    const char *pid_to_str (ptid_t) override;

    bool has_memory () override { return true; }
    bool has_stack () override { return true; }
    bool has_registers () override { return true; }
};

/* Target ops for libkvm interface. */
static bsd_kvm_target
bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
    char errbuf[_POSIX2_LINE_MAX];
    char *execfile = NULL;
    kvm_t *temp_kd;
    char *filename = NULL;

    target_preopen (from_tty);

    if (arg)
    {
        char *temp;

        filename = tilde_expand (arg);
        if (filename[0] != '/')

```



```

{
    temp = concat (current_directory, "/", filename, (char *)NULL);
    xfree (filename);
    filename = temp;
}
}

execfile = get_exec_file (0);
temp_kd = kvm_openfiles (execfile, filename, NULL,
    write_files ? O_RDWR : O_RDONLY, errbuf);
if (temp_kd == NULL)
    error ("%s", errbuf);

bsd_kvm_corefile = filename;
unpush_target (&bsd_kvm_ops);
core_kd = temp_kd;
push_target (&bsd_kvm_ops);

add_thread_silent (bsd_kvm_ptid);
inferior_ptid = bsd_kvm_ptid;

target_fetch_registers (get_current_regcache (), -1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
    if (core_kd)
    {
        if (kvm_close (core_kd) == -1)
            warning ("%s", kvm_geterr(core_kd));
        core_kd = NULL;
    }

    inferior_ptid = null_ptid;
    discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
    gdb_byte *readbuf, const gdb_byte *writebuf)
{
    ssize_t nbytes = len;

    if (readbuf)

```

```

    nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
    if (writebuf && nbytes > 0)
        nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
    return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
    const char *annex, gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
    switch (object)
    {
        case TARGET_OBJECT_MEMORY:
        {
            LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

            if (ret < 0)
                return TARGET_XFER_E_IO;
            else if (ret == 0)
                return TARGET_XFER_EOF;
            else
            {
                *xfered_len = (ULONGEST)
ret;
                return TARGET_XFER_OK;
            }
        }

        default:
            return TARGET_XFER_E_IO;
    }
}

void
bsd_kvm_target::files_info ()
{
    if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
        printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
            bsd_kvm_corefile);
    else
        printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR. */

static int

```

```

bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
    struct pcb pcb;

    if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
        error (("%%s"), kvm_geterr (core_kd));

    gdb_assert (bsd_kvm_supply_pcb);
    return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
    struct nlist nl[2];

    if (bsd_kvm_paddr)
    {
        bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
        return;
    }

    /* On dumping core, BSD kernels store the faulting context (PCB)
    in the variable "dumppcb". */
    memset (nl, 0, sizeof nl);
    nl[0].n_name = "_dumppcb";

    if (kvm_nlist (core_kd, nl) == -1)
        error (("%%s"), kvm_geterr (core_kd));

    if (nl[0].n_value != 0)
    {
        /* Found dumppcb. If it contains a valid context, return
        immediately. */
        if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
            return;
    }

    /* Traditional BSD kernels have a process proc0 that should always
    be present. The address of proc0's PCB is stored in the variable
    "proc0paddr". */

    memset (nl, 0, sizeof nl);
    nl[0].n_name = "_proc0paddr";

    if (kvm_nlist (core_kd, nl) == -1)
        error (("%%s"), kvm_geterr (core_kd));

```

```

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found proc0paddr. */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error ("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB
/* In FreeBSD kernels
for 5.0-RELEASE and later, the PCB no longer
lives in `struct proc' but in `struct thread'. The `struct
thread' for the initial thread for proc0 can be found in the
variable "thread0". */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_thread0";

if (kvm_nlist (core_kd, nl) == -1)
    error ("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
{
    struct pcb *paddr;

    /* Found thread0. */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error ("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
}
#endif

/* i18n: PCB == "Process Control Block". */
error (_("Cannot find a valid PCB"));
}

/* Kernel memory interface commands. */
struct cmd_list_element *bsd_kvm_cmdlist;

```

```

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
    /* ??? Should this become an alias for "target kvm"? */
}

#ifdef HAVE_STRUCT_THREAD_TD_PCB

static
void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
    CORE_ADDR addr;

    if (arg == NULL)
        error_no_arg (_("proc address"));

    if (core_kd == NULL)
        error (_("No kernel memory image.));

    addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
    addr += offsetof (struct lwp, l_addr);
#else
    addr += offsetof (struct proc, p_addr);
#endif

    if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
        error ((("%s"), kvm_geterr (core_kd)));

    target_fetch_registers (get_current_regcache (), -1);

    reinit_frame_cache ();
    print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
    if (arg == NULL)
        /* i18n: PCB == "Process Control Block". */
        error_no_arg (_("pcb address"));

    if (core_kd == NULL)
        error (_("No kernel memory image.));

```

```

bsd_kvm_paddr = (struct pcb *) (u_long) parse_and_eval_address (arg);

target_fetch_registers (get_current_regcache (),
-1);

reinit_frame_cache ();
print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
    return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
    static char buf[64];
    xsnprintf (buf, sizeof buf, "<kvm>");
    return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter. */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
    gdb_assert (bsd_kvm_supply_pcb == NULL);
    bsd_kvm_supply_pcb = supply_pcb;

    add_target (bsd_kvm_target_info, bsd_kvm_target_open);

    add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
Generic command for manipulating the kernel memory interface."),
        &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifdef HAVE_STRUCT_THREAD_TD_PCB
    add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
        _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
    add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
        /* i18n: PCB == "Process Control Block". */
        _("Set current context from pcb address"), &bsd_kvm_cmdlist);

    /* Some notes on the ptid usage on this target.

```

The pid field represents the kvm inferior instance. Currently, we don't support multiple kvm inferiors, but we start at 1 anyway. The lwp field is set to != 0, in case the core wants to refer to the whole kvm inferior with ptid(1,0,0).

If kvm is made to export running processes as gdb threads, the following form can be used:

ptid (1, 1, 0) -> kvm inferior 1, in kernel
ptid (1, 1, 1) -> kvm inferior 1, process 1
ptid (1, 1, 2) -> kvm inferior 1, process 2
ptid (1, 1, n) -> kvm inferior 1, process n */

```
bsd_kvm_ptid = ptid_t (1, 1, 0);  
}
```

```
#!/usr/bin/env python
```

```
# Copyright (C) 2011-2019 Free Software Foundation, Inc.
```

```
#
```

```
# This file is part of GDB.
```

```
#
```

```
# This program is free software; you can redistribute it and/or modify  
# it under the terms of the GNU General Public License as published by  
# the Free Software Foundation; either version 3 of the License, or  
# (at your option) any later version.
```

```
#
```

```
# This program is distributed in the hope that it will be useful,  
# but WITHOUT ANY WARRANTY; without even the implied warranty of  
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
# GNU General Public License for more details.
```

```
#
```

```
# You should have received a copy of the GNU General Public License  
# along with this program. If not, see <http://www.gnu.org/licenses/>.
```

```
"""copyright.py
```

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!

A useful command to review

the output is:

```
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
```

This removes the bulk of the changes which are most likely to be correct.

```
"""
```

```

import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

```



```

# Perform the update, and save the output in a string.
update_cmd
= ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_cmd += update_list

p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                      stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('\n'):

        line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
            if may_have_copyright_notice(filename):
                print line
            else:
                # Unrecognized file format. !?!
                print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say

```

```

# 50 lines...
MAX_LINES = 50

fd = open(filename)

lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
    if lineno > 50:
        return False
return False

def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...

    if MULTIPLE_COPYRIGHT_HEADERS:
        print
        print("\033[31m"
              "REMINDER: Multiple copyright headers must be updated by hand:"
              "\033[0m")
        for filename in MULTIPLE_COPYRIGHT_HEADERS:
            print " ", filename

    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \
              "\033[0m"
        for filename in BY_HAND:
            print " ", filename

#####
#
#
    Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.

```

```

#
#####

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all
# files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
    "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # Nothing at the moment :-).
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",

```

"sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
 "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
 "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
 "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
 "sim/arm/armopts.h",
 "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
 "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
 "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
 "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
 "sim/arm/arminit.c",
 "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
 "sim/common/cgen-accfp.c",
 "sim/mips/m16run.c", "sim/mips/sim-main.c",
 "sim/moxie/moxie-gdb.dts",
 # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
 "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
 "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
 "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
 "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
 "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
 "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
 "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
 "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
 "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
 "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
 "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
 "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
 "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
 "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
 "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
 "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
 "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
 "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
 "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
 "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
 "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
 "sim/ppc/bits.c", "sim/ppc/idecode_fields.h",
 "sim/ppc/hw_memory.c",
 "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
 "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
 "sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
 "sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
 "sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
 "sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
 "sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
 "sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
 "sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
 "sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",

```

"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h",
"sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

```

```

if __name__ == "__main__":

```

```

    main()

```

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

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The

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section 10

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1.64 libunwind 1.1

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1.65 libx11 1.6.2

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1.66 cryptsetup 1.6.6

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@item

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@item

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@item

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@item

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@end enumerate

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```
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Version 3, 29 June 2007

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1.68 inetutils 1.9.2

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked,

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.71 less 466

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

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The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years

and valid for as

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

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

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

the same way through the same place at no

further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)

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1.72 cronie 1.4.11

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1.73 rpcbind 0.2.1

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1.74 gnutls 3.3.5

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Version 3, 29 June 2007

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1.77 libcap 2.22

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FIRST NOTE:

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

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

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

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

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

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

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

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-

alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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

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

- * MoreFiles
- *
- * A collection of File Manager and related routines
- *
- * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- * with significant code contributions by Nitin Ganatra
- * (Apple Macintosh Developer Technical Support Emeritus)
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- *
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(extra field compatibility with ZipIt):

- * MacBinaryIII.h
- *
- * Copyright 1997 Christopher Evans (cevens@poppybank.com)
- *
- * Basic encoding and decoding of Macintosh files to the
- * MacBinary III spec.
- * -----
- * This source is copyrighted by Christopher Evans (cevens@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 contribu-
tions as useful as we have his.

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

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

1.79 kmod 18+git0+ae58de0fcb

1.79.1 Available under license :

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Version 2.1, February 1999

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1.82 xz 5.2.2

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WEV[B "1
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1.84 json-c 0.12

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1.85 libpcap 1.6.1

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1.87 go-capability

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1.88 libxml2 2.7.6

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1.92 godbus

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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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

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That's all there is to it!

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

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
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- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired and contributed to many of the changes for version 3.0.0. He also provided the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

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- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information, reported bugs, provided feedback, or works on including BeeCrypt in any other distros.

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

1.98 libassuan 2.4.3

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

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

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

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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The algorithm is due to Ron Rivest. This code was
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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
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To compute the message digest of a chunk of bytes, declare an
MD5Context
structure, pass it to MD5Init, call MD5Update as
needed on buffers full of bytes, and then call MD5Final, which
will fill a supplied 16-byte array with the digest.

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1.106 openssl 1.0.2n

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

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

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

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

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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

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1.113 libtool 6.0

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather

lists

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers

* as needed. This means that data must always be copied to create

* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

* Fix is simple: make large buffers large enough to hold entire

* SDU, and leave <small_buffer_data> bytes empty at the start. Then

* copy small buffer contents to head of large buffer.

* Trick is to avoid fragmenting Linux, due to need for a lot of large

* buffers. This is done by 2 things:

* 1) skb->destructor / skb->atm.recycle_buffer

* combined, allow nicstar_free_rx_skb to be called to

* recycle large data buffers

* 2) skb_clone of received buffers

* See nicstar_free_rx_skb and linearize_buffer for implementation

* details.

*

*

*

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*

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*

* M. Welsh, 6 July 1996

*

*

*/

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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>

for CyberLogin for Linux which allows logging onto EON

(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.121 python3-asn1crypto 1.4.0

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1.122 linux-kernel 4.9.0

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
```

- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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- *
- * M. Welsh, 6 July 1996
- *
- *
- */
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Because
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

- * re-established. (put back CFG_PHYIE)
- *
- * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- *
- * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- *
- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather
- lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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- *

* M. Welsh, 6 July 1996

*

*

*/

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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1.124 tre 0.8.0

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1.125 tcpdump 4.9.3

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1.126 protobuf 3.13.0

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* /google-protobuf-3-13-0-gem/data-tar-gz/lib/google/protobuf/well_known_types.rb
* /google-protobuf-3-13-0-gem/data-tar-gz/lib/google/protobuf/repeated_field.rb
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* /google-protobuf-3-13-0-gem/data-tar-gz/ext/google/protobuf_c/repeated_field.c
* /google-protobuf-3-13-0-gem/data-tar-gz/ext/google/protobuf_c/protobuf.h
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/google-protobuf-3-13-0-gem/data-tar-gz/ext/google/protobuf_c/storage.c
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1.127 logrus 1.7.0

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1.128 libxdmcp 1.1.1

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1.129 zlib 1.2.7-18.el7

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1.130 psutil 5.7.3

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1.132 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
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Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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Classifier: Programming Language :: Python :: 3.3
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Found in path(s):
* /pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
* /pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
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1.134 yum-metadata-parser 1.1.4

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1.135 psmisc 22.21

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1.136 kerberos 1.15.1-50.el7

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_delete_sec_context.c
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lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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

lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.146 openssl 1.0.2k-21.el7_9

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1.147 smartmontools 6.2

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1.153 libsodium 1.0.1

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```
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1.154 pdksh 5.2.14

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That's it. Short and simple.

This is a partial history of this shell gleaned from old change logs and readmes (most of which are still in the misc directory) and the source code. Hopefully it is correct and no contributors have been left out (file a bug report if you spot a problem :-)).

Release history:

* Eric Gisin (egisin@math.uwaterloo.ca), created pdksh, using Charles Forsyth's public domain V7 shell as a base; also used parts of the BRL shell (written by Doug A Gwyn, Doug Kingston, Ron Natalie, Arnold Robbins, Lou Salkind, and others?, circa '87; the parts used in pdksh included getopts, test builtin, ulimit, tty setting/getting, emacs editing, and job control; the test builtin was based on code by Erik Baalbergen).

'87..'89 ?

Released versions: .. 3.2

* John R MacMillan (@yonge.csri.toronto.edu:chance!john@sq.sq.com) takes over as maintainer

dates?

Released versions: 3.3 (?)

* Simon J. Gerraty (sjg@zen.void.oz.au) takes over as maintainer

Nov '91..July '94 ?

Released versions: 4.0 .. 4.9

* Michael Rendell (michael@cs.mun.ca) takes over as maintainer

July, 1994

Released versions: 5.0 .. 5.2

Major contributions:

* John R MacMillan (@yonge.csri.toronto.edu:chance!john@sq.sq.com), ?: cleaned up configuration, many bug fixes (see misc/Changes.jrm).

* Simon Gerraty, (sjg@zen.void.oz.au), Nov '91..?: much improved emacs mode ala at&t ksh, 386bsd port, sigaction routines for non-POSIX systems (see misc/ChangeLog.sjg and misc/ReadME.sjg).

- * Peter Collinson (pc@hillside.co.uk), July '92: added select, at&t ksh style history file, original csh-style { } globbing, BSD/386 port, misc bug fixes.
- * Larry Bouzane (larry@compusult.nf.ca), Mar '89..'93: re-wrote job control, added async job notification, added CDPATH and other cd fixes, misc bug fixes.
- * John Rochester (jr@cs.mun.ca), '87: wrote vi command line editor; various bug fixes/enhancements.
- * Jeff Sparkes (jsparkes@bnr.ca), Mar '89..Mar '90: added arrays, merged John Rochester's vi code into pdksh, misc bug fixes.
- * Michael Haardt (u31b3hs@POOL.Informatik.RWTH-Aachen.DE), Sept '94: organized man page, filled in many of its copious blank spots; added KSH ifdefs.
- * Dale DePriest (daled@cadence.com): ported to OS/2 (initially based on port of pdksh4.9 to OS/2 by Kai Rommel (rommel@ars.muc.de)); maintains OS/2 port; misc bug fixes.

Other contributors:

- * Piercarlo Grandi (pcg@aber.ac.uk), Dec '93: fixes for linux port
- * Neil Smithline (Neil.Smithline@eng.sun.com), Aug '92: emacs-style filename completion.
- * Mike Jetzer [mlj] (jetzer@studsys.mscs.mu.edu), ?;Nov '94: fixes for vi mode (see misc/Changes.mlj), added v to vi, fixes for history; fixed command redoing in vi; fixes to vi globbing.
- * Robert J Gibson: mailbox checking code that was adapted for pdksh by John R. MacMillan.
- * ? (guy@demon.co.uk), ?: promptlen() function.
- * J.T. Conklin (jtc@cygnus.com): POSIXized test builtin; miscellaneous fixes/enhancements.
- * Sean Hogan (sean@neweast.ca): fixes for ICS 3.0 Unix, found and helped fix numerous problems.
- * Gordan Larson (hoh@approve.se): fix to compile sans VI, ksh.1 typo.
- * Thomas Gellekum (thomas@ghpc8.ihf.rwth-aachen.de): fixes for Makefile typos, fixed CLK_TCK for FreeBSD, man page fixes.
- * Ed Ferguson (Ed.Ferguson@dseg.ti.com): fix to compile sans VI.
- * Brian Campbell (brianc@qnx.com): fixes to compile under QNX and to compile with dmake.
- * (guy@netapp.com), Oct '94: patch to use gmacs flag.
- * Andrew Moore (alm@netcom.com): reported many bugs, fixes.
- * William Bader (wbader@CSEE.Lehigh.Edu): fix to compile on SCO Unix (strut winsize).
- * Mike Long (mike.long@analog.com): makefile fix - use \$manext, not 1.
- * Art Mills (aem@hpbs9162.bio.hp.com): bug fix for vi file completion in command mode.
- * Tory Bollinger (tboll@authstin.ibm.com): allow ~ in vi mode to take a count.
- * Frank Edwards (<crash@azhrei.EEC.COM>): added macros to vi (@char).

- * Fritz Heinrichmeyer (<Fritz.Heinrichmeyer@FernUni-Hagen.de>): fixes to allow compile under Linux 1.4.3.
- * Gabor Zahemszky (<zgabor@CoDe.hu>): SVR3_PGRP vs SYSV_PGRP, many bug reports and man page fixes.
- * Dave Kinchlea (<kinch@julian.uwo.ca>): DEFAULT_ENV patches.
- * Paul Borman (<prb@bsd.i.com>): j_exit: send HUP, then CONT; HUP fg process.
- * David W. Sanderson (<dws@ssec.wisc.edu>): patches to allow { .. } instead of in .. esac in case statements.
- * ? (<ra@rhi.hi.is>): partial patches to handle SIGWINCH for command line editing.
- * Jason Tyler (<jason@nc.bhpese.oz.au>): fixes for bugs in fc.
- * Stefan Dalibor (<Stefan.Dalibor@informatik.uni-erlangen.de>): fix for COLUMNS never being set in x_init().
- * Arnon Kanfi (<arnon@gilly.datatools.com>):
fix for prompt.
- * Marc Olzheim (<marcolz@stack.nl>): patches to ifdef KSH the mail check code and aliases; enum patches for old K&R compilers; handle missing dup2.
- * Lars Hecking (<lhecking@nmrc.ucc.ie>): fixes so shell compiles as sh again.
- * Bill Kish (<kish@browncow.com>): added prompt delimiter hack for hidden characters (eg. escape codes).
- * Andrew S. Townley (<atownley@informix.com>): fixes for NeXT machines: get a controlling if one needed, use correct profile.
- * Eric J. Chet (<ejc@bazzle.com>): fix for core dump in . (quitenv() called too soon).
- * Greg A. Woods <woods@most.weird.com>: fix to make ^[_ in emacs work as in at&t ksh.
- * George Robbins <grr@shandakor.tharsis.com>: fix for sh mode to keep exec'd file descriptors open.
- * George White <gwhite@bodnext.bio.dfo.ca>: fix here-doc problem under OS/2 (memory allocated incorrectly).
- * David E. Wexelblat <dwex@DataFocus.com>: fix to avoid
memory overrun
in aresize(); fix to not print un-named options.
- * Clifford Wolf (<clifford@clifford.at>): fix memory overrun in aresize(); fixed sys_siglist[] problem.
- * Theo de Raadt (<deraadt@cvs.openbsd.org>): allow ". /dev/null".
- * Eric Youngdale (<ericy@datafocus.com>): flag field incorrectly changed in exec.c(flushcom).
- * Todd C. Miller (Todd C. Miller <Todd.Miller@courtesan.com>): fix for coredump in jobs.
- * Kevin Schoedel <schoedel@kw.igs.net>: fix for word location in file completion.
- * Martin Lucina <mato@kotelna.sk>: fix for argument parsing in exit command, fix for KSH_CHECK_H_TYPE.
- * Mark Funkenhauser <mark@interix.com>: added \$LINENO support.
- * Corinna Vinschen <Corinna@Vinschen.de> and Steven Hein <ssh@sgi.com>: port to cyngin environment on win95/winnt.

- * Martin Dalecki <dalecki@cs.net.pl>: changes for 8 bit emacs mode.
- * Dave Hillman <daveh@gte.net>: patch for bug in test -nt.

1.155 pax-utils 1.2.5

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1.156 x-crypto 0.0.0

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1.159 urllib3 1.26.4

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* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>

* Bugfixes, suggestions, Requests integration

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* Bugfixes, Improvements and Test coverage

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* Python 3 support

* brandon-rhodes <<http://rhodesmill.org/brandon>>

* Design review, bugfixes, test coverage.

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* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>

* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>

* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>

* Support for TLS SNI

* API unification of ssl_version/cert_reqs

* SSL fingerprint and alternative hostname verification

* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>

* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>

* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>

* Correct six.moves conflict

* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>

* Allowed to skip SSL hostname verification

* Cory Benfield

<<https://lukasa.co.uk/about/>>

* Stream method for Response objects.

* Return native strings in header values.

- * Generate 'Host' header when using proxies.
- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL
- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition
- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support
- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields
- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters
- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts
- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire
- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality
- * Danilo @dbrgn <https://dbrgn.ch/>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module
- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors
- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations
- * Josh Schneier <https://github.com/jschneier>
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage
- * Tahia Khan <http://tahia.tk/>
- * Added Timeout examples in docs
- * Arthur Grunseid <https://grunseid.com>
- * source_address support and tests (with https://github.com/bui)
- * Ian Cordasco <graffatcolmingov@gmail.com>

- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- * Andy Caldwell <andy.m.caldwell@gmail.com>
- * Bugfix related to reusing connections in indeterminate states.

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

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

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

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

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

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

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

- * Added enforce_content_length to raise exception when incorrect content-length received.
- * Seth Michael Larson <sethmichaellarson@protonmail.com>
 - * Created selectors backport that supports PEP 475.
- * Alexandre Dias <alex.dias@smarkets.com>
 - * Don't retry on timeout if method not in whitelist
- * Moinuddin Quadri <moin18@gmail.com>
 - * Lazily load idna package
- * Tom White <s6yg1ez3@mail2tor.com>
 - * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- * Tim Burke <tim.burke@gmail.com>
 - * Stop buffering entire deflate-encoded responses.
- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
 - * Add counter for status_forcelist retries.
- * Erik Rose <erik@mozilla.com>
 - * Bugfix to pyopenssl vendoring
- * Wolfgang Richter <wolfgang.richter@gmail.com>
 - * Bugfix related to loading full certificate chains with PyOpenSSL backend.
- * Mike Miller <github@mikeage.net>
 - * Logging improvements to include the HTTP(S) port when opening a new connection
- * Ioannis Tziakos <mail@itziakos.gr>
 - * Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
 - * Update appveyor tox setup to use the 64bit python.
- * Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
 - * Ongoing maintenance; 2017-2018
- * Dominique Leuenberger <dimstar@opensuse.org>
 - * Minor fixes in the test suite
- * Will Bond <will@wbond.net>
 - * Add Python 2.6 support to ``contrib.securetransport``
- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
 - * using auth info for socks proxy
- * Chris Wilcox <git@crwilcox.com>
 - * Improve contribution guide

- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- * Bruce Merry <<https://www.brucemerry.org.za>>
- * Fix leaking exceptions when system calls are interrupted with zero timeout
- * Hugo van Kemenade <<https://github.com/hugovk>>
- * Drop support for EOL Python 2.6
- * Tim Bell <<https://github.com/timb07>>
- * Bugfix for responses with Content-Type: message/* logging warnings
- * Justin Bramley <<https://github.com/jbramleycl>>
- * Add ability to handle multiple Content-Encodings
- * Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- * Remove Authorization header regardless of case when redirecting to cross-site
- * James Meickle <<https://permadeath.com/>>
- * Improve handling of Retry-After header
- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.
- * Jorge Lopez Silva <<https://github.com/jalopezsilva>>
- * Added support for forwarding requests through HTTPS proxies.
- * Benno Rice <benno@jeamland.net>
- * Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.
- * Keiichi Kobayashi <abok.1k@gmail.com>
- * Rename VerifiedHTTPSConnection to HTTPSConnection
- * Himanshu Garg <garg_himanshu@outlook.com>
- * DOC & LICENSE Update
- * Hod Bin Noon <bin.noon.hod@gmail.com>
- * Test improvements
- * Chris Olufson <tycarac@gmail.com>
- * Fix for connection not being released on HTTP redirect and response not preloaded
- * [Bastiaan Bakker] <<https://github.com/bastiaanb>>
- * Support for logging session keys via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)
- * [Ezzeri Esa] <<https://github.com/savarin>>

* Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

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1.162 x-crypto 0.0.0-20200622213623-75b288015ac9

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1.163 cffi 1.14.5

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1.164 go-units v0.4.0

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1.165 diskv v3.0.0

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1.166 mergo v0.3.12

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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

1.167 markupsafe 1.1.1

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/**

* markupsafe._speedups

* ~~~~~

*

* C implementation of escaping for better performance. Used instead of
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1.168 go-systemd

4+gitb4a58d95188dd092ae20072bac14cece0e

6

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1.169 x-net 1.11

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1.170 bridgeutils 1.5

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

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1.172 go-patricia

2.2.6+gitAUTOINC+666120de43

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1.173 idna 13.0.0

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1.174 paho-mqtt 1.5.0

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1.175 open-ldap 1.2.5

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```

package spec

```
// License information for the exposed API.  
//  
// For more information: http://goo.gl/8us55a#licenseObject  
type License struct {  
    Name string `json:"name,omitempty"`  
    URL string `json:"url,omitempty"`  
}  
Mozilla Public License, version 2.0
```

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

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Gocheck - A rich testing framework for Go

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*

* curve25519-donna: Curve25519 elliptic curve, public key function

*

* <http://code.google.com/p/curve25519-donna/>

*

* Adam Langley <agl@imperialviolet.org>

*

* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

*

* More information about curve25519 can be found here
 * <http://cr.yp.to/ecdh.html>

*

* djb's sample implementation of curve25519 is written in a special assembly
 * language called qhasm and uses the floating point registers.

*

* This is, almost, a clean room reimplementation from the curve25519 paper. It
 * uses many of the tricks described therein. Only the crecip function is taken
 * from the sample implementation.

*/

1.181 zstandard 0.15.2

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=====

Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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package engine

```
import (  
    "time"  
  
    "github.com/docker/cli/cli/command/formatter"  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
)  
  
const (  
    defaultSubscriptionsTableFormat = "table  
{ {.Num} } { {.Owner} } { {.ProductID} } { {.Expires} } { {.ComponentsString} }"  
    defaultSubscriptionsQuietFormat = "{ {.Num} } : { {.Summary} }"
```

```

numHeader          = "NUM"
ownerHeader        = "OWNER"
licenseNameHeader  = "NAME"
idHeader           = "ID"
dockerIDHeader     = "DOCKER ID"
productIDHeader    = "PRODUCT ID"
productRatePlanHeader = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader        = "START"
expiresHeader      = "EXPIRES"
stateHeader        = "STATE"
eusaHeader         = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format
{
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num":      numHeader,
        "Owner":    ownerHeader,
    }

```



```

    "Name":      licenseNameHeader,
    "ID":        idHeader,
    "DockerID":  dockerIDHeader,
    "ProductID":
        productIDHeader,
    "ProductRatePlan": productRatePlanHeader,
    "ProductRatePlanID": productRatePlanIDHeader,
    "Start":      startHeader,
    "Expires":     expiresHeader,
    "State":       stateHeader,
    "Eusa":        eusaHeader,
    "ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l    licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

```

```

}

func (c *licenseContext) DockerID()
string {
return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
return c.l.Expires
}

func (c *licenseContext) State() string {
return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
// Dereference the pricing component pointers in the pricing components
// so it can be rendered properly with the template formatter

var ret []model.SubscriptionPricingComponent
for _, spc := range c.l.PricingComponents {
if spc == nil {
continue
}
ret = append(ret, *spc)
}
return ret
}

```

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package engine

```
import (  
    "bytes"  
    "encoding/json"  
    "strings"
```

```

"testing"
"time"

"github.com/docker/cli/cli/command/formatter"
"github.com/docker/cli/internal/licenseutils"
"github.com/docker/licensing/model"
"gotest.tools/v3/assert"
is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
context formatter.Context
expected string
}{
// Errors
{
formatter.Context{Format: "{{InvalidFunction}}"},
`Template parsing error: template: :1: function "InvalidFunction" not defined
`,
},
{
formatter.Context{Format: "{{nil}}"},
`Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
},
// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", false)},
`NUM          OWNER          PRODUCT ID      EXPIRES          PRICING COMPONENTS
1            owner1          productid1      2020-01-01 10:00:00 +0000 UTC  compstring
2
            owner2          productid2      2020-01-01 10:00:00 +0000 UTC  compstring
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`,
},
},
}

```

```

{
  formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
  `OWNER
owner1
owner2
`,
},
// Raw Format
{
  formatter.Context{Format: NewSubscriptionsFormat("raw", false)},
  `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

`,
},
{
  formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
  `license: id1
license: id2
`,
},
// Custom Format
{
  formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
  `owner1
owner2
`,
},
}

expiration,
_ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
  subscriptions := []licenseutils.LicenseDisplay{
    {
      Num: 1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID: "id1",
        Name: "name1",

```

```

ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
        Name: "nodes",
        Value: 10,
    },
},
ComponentsString: "compstring",
},
{
    Num: 2,
    Owner: "owner2",
    Subscription: model.Subscription{
        ID: "id2",
        Name: "name2",
        ProductID: "productid2",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes",
                Value: 20,
            },
        },
    },
    ComponentsString: "compstring",
},
}
out := &bytes.Buffer{}
testcase.context.Output
= out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{

```



```

ID:      "id1",
Name:    "name1",
ProductID: "productid1",
Expires: &expiration,
PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
        Name: "nodes",
        Value: 10,
    },
},
},
ComponentsString: "compstring",
},
{
    Num: 2,
    Owner: "owner2",
    Subscription: model.Subscription{
        ID:      "id2",
        Name:    "name2",
        ProductID: "productid2",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name:
"nodes",
                Value: 20,
            },
        },
    },
    ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
{
    "Owner":      "owner1",
    "ComponentsString": "compstring",
    "Expires":    "2020-01-01T10:00:00Z",
    "DockerID":   "",
    "Eusa":       nil,
    "ID":         "id1",
    "Start":      nil,
    "Name":       "name1",
    "Num":        float64(1),
    "PricingComponents": []interface{}{
        map[string]interface{}{
            "name": "nodes",
            "value": float64(10),
        },
    },
}

```

```

    },
    "ProductID":      "productid1",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State":          "",
    "Summary":        "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
  },
  {
    "Owner":          "owner2",
    "ComponentsString": "compstring",
    "Expires":        "2020-01-01T10:00:00Z",
    "DockerID":       "",
    "Eusa":           nil,
    "ID":             "id2",
    "Start":          nil,
    "Name":           "name2",
    "Num":            float64(2),
    "PricingComponents": []interface{}{
      map[string]interface{}{
        "name": "nodes",
        "value": float64(20),
      },
    },
  },
  {
    "ProductID":      "productid2",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State":          "",
    "Summary":        "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
  },
}

```

```

out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
  t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
  var m map[string]interface{}
  if err := json.Unmarshal([]byte(line), &m); err != nil {
    t.Fatal(err)
  }
  assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

```

```

func TestSubscriptionContextWriteJSONField(t *testing.T) {
  subscriptions := []licenseutils.LicenseDisplay{

```

```

{Num: 1,
Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}

```

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package licensing

```
import (  
    "context"  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/json"  
    "fmt"  
    "time"  
  
    "github.com/docker/libtrust"
```

```

"github.com/docker/licensing/lib/errors"
"github.com/docker/licensing/lib/go-clientlib"
"github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx,
        license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{

```

```

        "key_id": keyID,
    })
}

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if
err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization

```

```

func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization
failed")
    }
    return decoded, nil
}

```

```

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

```

```

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.

```

```

func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

```

```

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

```

```

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

```

```

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token},
            "invalid token")
    }

```

```

    return nil
}

```

```

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.

```

```

func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

```

```
}

h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}
```

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

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package model

```
import "time"
```

```
// A CheckResponse is the internal content of the PublicCheckResponse signed  
// json blob.
```

```
type CheckResponse struct {  
    Expiration    time.Time `json:"expiration"`  
    Token         string   `json:"token"`  
    MaxEngines    int      `json:"maxEngines"`  
    ScanningEnabled bool     `json:"scanningEnabled"`  
    Type          string   `json:"licenseType"`  
    Tier          string   `json:"tier"`  
}
```

```
// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID      string `json:"key_id"`
    PrivateKey  string `json:"private_key"`
    Authorization string `json:"authorization"`
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}
```

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1.185 golang 1.17.1

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1.189 dgryski-go-rendezvous 0.0.0-20200823014737-9f7001d12a5f

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1.190 digineo-go-logwrap 0.0.0-20181106161722-a178c58ea3f0

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1.191 urfave-cli 2.3.0

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1.192 netns 0.0.0-20200728191858-db3c7e526aae

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1.193 x-sys 0.0.0-20201107080550-4d91cf3a1aaf

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1.194 digineo-go-ping 1.0.0

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1.195 x-sys 0.0.0-20211007075335-d3039528d8ac

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1.196 backoff 4.1.1

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1.197 redis 6.2.3

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1.200 golang 1.8.1

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# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

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1.203 golang 1.9.2

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tomb - support for clean goroutine termination in Go.

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1.206 etcd-raft

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Features

This document provides an overview of etcd features and general development guidelines for adding and deprecating them. The project maintainers can override these guidelines per the need of the project following the project governance.

Overview

The etcd features fall into three stages, experimental, stable, and unsafe.

Experimental

Any new feature is usually added as an experimental feature. An experimental feature is characterized as below:

- Might be buggy due to a lack of user testing. Enabling the feature may not work as expected.
- Disabled by default when added initially.
- Support for such a feature may be dropped at any time without notice
 - Feature-related issues may be given lower priorities.
 - It can be removed in the next minor or major release without following the feature deprecation policy unless it graduates to a stable future.

Stable

A stable feature is characterized as below:

- Supported as part of the supported releases of etcd.
- - May be enabled by default.
- Discontinuation of support must follow the feature deprecation policy.

Unsafe

Unsafe features are rare and listed under the `Unsafe feature:` section in the etcd usage documentation. By default, they are disabled. They should be used with caution following documentation. An unsafe feature can be removed in the next minor or major release without following the feature deprecation policy.

Development Guidelines

Adding a new feature

Any new enhancements to the etcd are typically added as an experimental feature. The general development requirements are listed below. They can be somewhat flexible depending on the scope of the feature and review discussions and will evolve over time.

- Open an issue

- It must provide a clear need for the proposed feature.
- It should list development work items as checkboxes. There must be one work item towards future graduation to a stable future.
- Label the issue with `type/feature` and `experimental`.
- Keep the issue open for tracking purposes until a decision is made on graduation.
- Open a Pull Request (PR)
 - Provide unit tests. Integration tests are also recommended as possible.
 - Provide robust e2e test coverage. If the feature being added is complicated or quickly needed, maintainers can decide to go with e2e tests for basic coverage initially and have robust coverage added at a later time before the feature graduation to the stable feature.
 - Provide logs for proper debugging.
 - Provide metrics and benchmarks as needed.
 - The Feature should be disabled by default.
 - Any configuration flags related to the implementation of the feature must be prefixed with `experimental` e.g. `--experimental-feature-name`.
 - Add a CHANGELOG entry.
- At least two maintainers must approve feature requirements and related code changes.

Graduating an Experimental feature to Stable

It is important that experimental features don't get stuck in that stage.

They should be revisited and moved to the stable stage following the graduation steps as described here.

Locate graduation candidate

Decide if an experimental feature is ready for graduation to the stable stage.

- Find the issue that was used to enable the experimental feature initially. One way to find such issues is to search for issues with `type/feature` and `experimental` labels.
- Fix any known open issues against the feature.
- Make sure the feature was enabled for at least one previous release. Check the PR(s) reference from the issue to see when the feature-related code changes were merged.

Provide implementation

If an experimental feature is found ready for graduation to the stable stage, open a Pull Request (PR) with the following changes.

- Add robust e2e tests if not already provided.
- Add a new stable feature flag identical to the experimental feature flag but without the `--experimental` prefix.
- Deprecate the experimental feature following the [feature deprecation policy](#Deprecating-a-feature).
- Implementation must ensure that both the graduated and deprecated experimental feature flags work as expected. Note that both these flags will co-exist for the timeframe described in the feature deprecation policy.
- Enable the graduated feature by default if needed.

At least two maintainers must approve the work. Patch releases should not be considered for graduation.

Deprecating a feature

Experimental

An experimental feature deprecates when it graduates to the stable stage.

- Add a deprecation message in the documentation of the experimental feature with a recommendation to use a related stable feature. e.g. `DEPRECATED. Use <feature-name> instead.`
- Add a `deprecated` label in the issue that was initially used to enable the experimental feature.

Stable

As the project evolves, a stable feature may sometimes need to be deprecated and removed. Such a situation should be handled using the steps below:

- Create an issue for tracking purposes.
- Add a deprecation message in the feature usage documentation before a planned release for feature deprecation. e.g. `To be deprecated in <release>.`. If a new feature replaces the `To be deprecated` feature, then also provide a message saying so. e.g. `Use <feature-name> instead.`.
- Deprecate the feature in the planned release with a message as part of the feature usage documentation. e.g. `DEPRECATED`. If a new feature replaces the deprecated feature, then also provide a message saying so. e.g. `DEPRECATED. Use <feature-name> instead.`.
- Add a `deprecated` label in the related issue.

Remove the deprecated feature in the following release. Close any related issue(s). At least two maintainers must approve the work. Patch releases should not be considered for deprecation.

Set up the local cluster

For testing and development deployments, the quickest and easiest way is to configure a local cluster. For a production deployment, refer to the [clustering][clustering] section.

Local standalone cluster

Starting a cluster

Run the following to deploy an etcd cluster as a standalone cluster:

```
...
$ ./etcd
...
...
```

If the `etcd` binary is not present in the current working directory, it might be located either at `\$GOPATH/bin/etcd` or at `/usr/local/bin/etcd`. Run the command appropriately.

The running etcd member listens on `localhost:2379` for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Store an example key-value pair in the cluster:

```
...
$ ./etcdctl put foo bar
```

```
OK
...
```

If OK is printed, storing the key-value pair is successful.

2. Retrieve the value of ``foo``:

```
...
$ ./etcdctl get foo
bar
...
```

If ``bar`` is returned, interaction with the etcd cluster is working as expected.

Local multi-member cluster

Starting a cluster

A ``Procfile`` at the base of the etcd git repository is provided to easily configure a local multi-member cluster. To start a multi-member cluster, navigate to the root of the etcd source tree and perform the following:

1. Install ``goreman`` to control Procfile-based applications:

```
...
$ go install github.com/mattn/goreman@latest
...
```

The installation will place executables in the `$GOPATH/bin`. If `$GOPATH` environment variable is not set, the tool will be installed into the `$HOME/go/bin`. Make sure that `$PATH` is set accordingly in your environment.

2. Start a cluster with ``goreman`` using etcd's stock Procfile:

```
...
$ goreman -f Procfile start
...
```

The members start running. They listen on ``localhost:2379``, ``localhost:22379``, and ``localhost:32379`` respectively for client requests.

Interacting with the cluster

Use ``etcdctl`` to interact with the running cluster:

1. Print the list of members:

```
...
$ etcdctl --write-out=table --endpoints=localhost:2379 member list
```


...

The list of etcd members is displayed as follows:

...

```
+-----+-----+-----+-----+-----+
|  ID    | STATUS | NAME | PEER ADDRS | CLIENT ADDRS |
+-----+-----+-----+-----+-----+
| 8211f1d0f64f3269 | started | infra1 | http://127.0.0.1:2380 | http://127.0.0.1:2379 |
| 91bc3c398fb3c146 | started | infra2 | http://127.0.0.1:22380 | http://127.0.0.1:22379 |
| fd422379fda50e48 | started | infra3 | http://127.0.0.1:32380 | http://127.0.0.1:32379 |
+-----+-----+-----+-----+-----+
```

...

2. Store an example key-value pair in the cluster:

...

```
$ etcdctl put foo bar
OK
...
```

If OK is printed, storing the key-value pair is successful.

###

Testing fault tolerance

To exercise etcd's fault tolerance, kill a member and attempt to retrieve the key.

1. Identify the process name of the member to be stopped.

The ``Procfile`` lists the properties of the multi-member cluster. For example, consider the member with the process name, ``etcd2``.

2. Stop the member:

...

```
# kill etcd2
$ goreman run stop etcd2
...
```

3. Store a key:

...

```
$ etcdctl put key hello
OK
...
```

4. Retrieve the key that is stored in the previous step:

```
...  
$ etcdctl get key  
hello  
...
```

5. Retrieve a key from the stopped member:

```
...  
$ etcdctl --endpoints=localhost:22379 get key  
...
```

The command should display an error caused by connection failure:

```
...  
2017/06/18 23:07:35 grpc: Conn.resetTransport failed to create client transport: connection error: desc =  
"transport: dial tcp 127.0.0.1:22379: getsockopt: connection refused"; Reconnecting to "localhost:22379"  
Error: grpc:  
timed out trying to connect  
...
```

6. Restart the stopped member:

```
...  
$ goreman run restart etcd2  
...
```

7. Get the key from the restarted member:

```
...  
$ etcdctl --endpoints=localhost:22379 get key  
hello  
...
```

Restarting the member re-establishes the connection. `etcdctl` will now be able to retrieve the key successfully. To learn more about interacting with etcd, read [interacting with etcd section][interacting].

[clustering]: <https://etcd.io/docs/latest/op-guide/clustering/>
[interacting]: https://etcd.io/docs/latest/dev-guide/interacting_v3/
Branch management

Guide

- * New development occurs on the [main branch][main].
- * The main branch should always have a green build!
- * Backwards-compatible bug fixes should target the main branch and subsequently be ported to stable branches.
- * Once the main branch is ready for release, it will be tagged and become the new stable branch.

The etcd team has adopted a *rolling release model* and supports two stable versions of etcd.

Main branch

The `main` branch is our development branch. All new features land here first.

To try new and experimental features, pull `main` and play with it. Note that `main` may not be stable because new features may introduce bugs.

Before the release of the next stable version, feature PRs will be frozen. A [release manager](./release.md#release-management) will be assigned to the major/minor version and will lead the etcd community in testing, bug-fix, and documentation of the release for one to two weeks.

Stable branches

All branches with the prefix `release-` are considered `_stable_` branches.

After every minor release (semver.org), we will have a new stable branch for that release, managed by a [patch release manager](./release.md#release-management). We will keep fixing the backward-compatible bugs for the latest two stable releases. A `_patch_` release to each supported release branch, incorporating any bug fixes, will be once every two weeks, given any patches.

[main]: <https://github.com/etcd-io/etcd/tree/main>

Issue triage guidelines

Purpose

Speed up issue management.

The `etcd` issues are listed at <https://github.com/etcd-io/etcd/issues> and are identified with labels. For example, an issue that is identified as a bug will be set to the label `type/bug`.

The etcd project uses labels to indicate common attributes such as `area`, `type`, and `priority` of incoming issues.

New issues will often start without any labels, but typically `etcd` maintainers, reviewers, and members will add labels by following these triage guidelines. The detailed list of labels can be found at <https://github.com/etcd-io/etcd/labels>.

Scope

This document serves as the primary guidelines for triaging incoming issues in `etcd`.

All contributors are encouraged and welcome to help manage issues which will help reduce the burden on project maintainers, though the work and responsibilities discussed in this document are created with `etcd` project reviewers and members in mind as these individuals will have triage access to the etcd project which is a requirement for actions like applying labels or closing issues.

Refer to [etcd community membership](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/community-membership.md) for guidance on becoming an etcd project member or reviewer.

Step 1 - Find an issue to triage

To get started you can use the following recommended issue searches to identify issues that are in need of triage:

- * [Issues that have no labels](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated+no%3Alabel)
- * [Issues created recently](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+)
- * [Issues not assigned but linked pr](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+no%3Aassignee+linked%3Apr)
- * [Issues with no comments](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+comments%3A0+)
- * [Issues with help wanted](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+label%3A%22help+wanted%22+)

##

Step 2 - Check the issue is valid

Before we start adding labels or trying to work out a priority, our first triage step needs to be working out if the issue actually belongs to the etcd project and is not a duplicate.

Issues that don't belong to etcd

Sometimes issues are reported that belong to other projects that `etcd` use. For example, `grpc` or `golang` issues. Such issues should be addressed by asking the reporter to open issues in the appropriate other projects.

These issues can generally be closed unless a maintainer and issue reporter see a need to keep it open for tracking purposes. If you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access to close the issue.

Duplicate issues

If an issue is a duplicate, add a comment stating so along with a reference for the original issue and if you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access close the issue.

Step 3 - Apply the appropriate type of label

Adding a `type` label to an issue helps create visibility on the health of the project and helps contributors identify potential priorities, i.e. addressing existing bugs or test flakes before implementing new features.

Support requests

As a general rule, the focus for etcd support is to address common themes in a broad way that helps all users, i.e. through channels like known issues, frequently asked questions, and high-quality documentation. To make the best use of project members time we should avoid providing 1:1 support if a broad approach is available.

Some people mistakenly use our GitHub bug report or feature request templates to file support requests. Usually, they are asking for help operating or configuring some aspect of etcd. Support requests for etcd should instead be

raised as [discussions](https://github.com/etcd-io/etcd/discussions).

Common

types of support requests are:

1. Questions about configuring or operating existing well-documented etcd features, for example, <<https://github.com/etcd-io/etcd/issues/15945>>. Note - If an existing feature is not well documented please apply the `area/documentation` label and propose documentation improvements that would prevent future users from stumbling on the problem again.
2. Bug reports or questions about unsupported versions of etcd, for example <<https://github.com/etcd-io/etcd/issues/15796>>. When responding to these issues please refer to our [supported versions documentation](https://etcd.io/docs/latest/op-guide/versioning) and encourage the reporter to upgrade to a recent patch release of a supported version as soon as possible. We should limit the effort supporting users that do not make the effort to run a supported version of etcd or ensure their version is patched.
3. Bug reports that do not provide a complete list of steps to reproduce the issue and/or contributors are not able to reproduce the issue, for example, <<https://github.com/etcd-io/etcd/issues/15740>>. We should limit the effort we put into reproducing issues ourselves and motivate users to provide the necessary information to accept the bug report.
4. General questions that are filed using feature request or bug report issue templates, for example, <<https://github.com/etcd-io/etcd/issues/15914>>. Note - These types of requests may surface good additions to our [frequently asked questions](https://etcd.io/docs/v3.5/faq).

If you identify that an issue is a support request please:

1. Add the `type/support` or `type/question` label.
2. Add the following comment to inform the issue creator that discussions should be used instead and that this issue will be converted to a discussion.

> Thank you for your question, this support issue will be moved to our [Discussion Forums](https://github.com/etcd-io/etcd/discussions).

>

> We are trying to consolidate the channels to which questions for help/support are posted so that we can improve our efficiency in responding to your requests, and make it easier for you to find answers to frequently asked questions and how to address common use cases.

>

> We regularly see messages posted in multiple forums, with the full response thread only in one place or, worse, spread across multiple forums. Also, the large volume of support issues on GitHub is making it difficult for us to use issues to identify real bugs.

>

> Members of the etcd community use Discussion Forums to field support requests. Before posting a new question, please search these for answers to similar questions, and also familiarize yourself with:

>

> 1. [user documentation](https://etcd.io/docs/latest)

> 2. [frequently asked questions](https://etcd.io/docs/v3.5/faq)

- >
- > Again, thanks for using etcd and raising this question.
- >
- > The etcd team

3. Finally, click `Convert to discussion` on the right-hand panel, selecting the appropriate discussion category.

Bug reports

If an issue has been raised as a bug it should already have the `type/bug` label, however, if this is missing for an issue you determine to be a bug please add the label manually.

The next step is to validate if the issue is indeed a bug. If not, add a comment with the findings and close the trivial issue. For non-trivial issues, wait to hear back from the issue reporter and see if there is any objection. If the issue reporter does not reply in 30 days, close the issue.

If the problem can not be reproduced or requires more information, leave a comment for the issue reporter as soon as possible while the issue is fresh for the issue reporter.

Feature requests

New feature requests should be created via the etcd feature request template and in theory already have the `type/feature` label, however, if this is missing for an issue you determine to be a feature please add the label manually.

Test flakes

Test flakes

are a specific type of bug that the etcd project tracks separately as these are a priority to address. These should be created via the test flake template and in theory already have the `type/flake` label, however, if this is missing for an issue you determine to be related to a flaking test please add the label manually.

Step 4 - Define the areas impacted

Adding an `area` label to an issue helps create visibility on which areas of the etcd project require attention and helps contributors find issues to work on relating to their particular skills or knowledge of the etcd codebase.

If an issue crosses multiple domains please add additional `area` labels to reflect that.

Below is a brief summary of the area labels in active use by the etcd project along with any notes on their use:

Label	Notes
---	---
area/external	Tracking label for issues raised that are external to etcd.
area/community	
area/raft	

area/clientv3		
area/performance		
area/security		
area/tls		
area/auth		
area/etcdctl		
area/etcdutl		
area/contrib	Not to be confused with `area/community` this label is specifically used for issues relating to community-maintained scripts or files in the `contrib/` directory which aren't part of the core etcd project.	
area/documentation		
area/tooling	Generally used in relation to the third party / external utilities or tools that are used in various stages of the etcd build, test, or release process, for example, tooling to create sboms.	
area/testing		
area/robustness-testing		

Step 5 - Prioritise the issue

If an issue lacks a priority label it has not been formally prioritized yet.

Adding a `priority` label helps the etcd project understand what is important and should be worked on now, and conversely, what is not as important and is on the project backlog.

Priority label	What it means	Examples
--- --- ---		
`priority/critical-urgent`	Maintainers are responsible for making sure that these issues (in their area) are being actively worked on i.e., drop what you're doing. The stuff is burning. These should be fixed before the next release. user-visible critical bugs in core features broken builds on tier1 supported platforms tests and critical security issues	
`priority/important-soon`	Must be staffed and worked on either currently or very soon ideally in time for the next release.	
`priority/important-longterm`	Important over the long term, but may not be currently staffed and/or may require multiple releases to complete.	
`priority/backlog`	General agreement that this is a nice-to-have, but no one's available to work on it anytime soon. Community contributions would be most welcome in the meantime, though it might take a while to get them reviewed if reviewers are fully occupied with higher-priority issues for example, immediately before a release.	
`priority/awaiting-more-evidence`	Possibly useful, but not yet enough support to actually get it done. Mostly placeholders for potentially good ideas, so that they don't get completely forgotten, and can be referenced or deduped every time they come up	

Step 6 - Support new contributors

As part of the `etcd` triage process once the `kind` and `area` have been determined, please consider if the issue would be suitable for a less experienced contributor. The `good first issue` label is a subset of the `help wanted` label, indicating that members have committed to providing extra assistance for new contributors. All `good first issue` items also have the `help wanted` label.

Help wanted

Items marked with the `help wanted` label need to ensure that they meet these criteria:

- * **Low Barrier to Entry** - It should be easy for new contributors.

- * **Clear** - The task is agreed upon and does not require further discussions in the community.

- * **Goldilocks priority** - The priority

should not be so high that a core contributor should do it, but not too low that it isn't useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.

Good first issue

Items marked with `good first issue` are intended for first-time contributors. It indicates that members will keep an eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher test commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

- * **No Barrier to Entry** - The task is something that a new contributor can tackle without advanced setup or domain knowledge.

- *

- * **Solution Explained** - The recommended solution is clearly described in the issue.

- * **Gives Examples** - Link to examples of similar implementations so new contributors have a reference guide for their changes.

- * **Identifies Relevant Code** - The relevant code and tests to be changed should be linked in the issue.

- * **Ready to Test** - There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesn't have tests, before labeling the issue, add a test fixture. This prep often makes a great help wanted task!

Step 7 - Follow up

Once initial triage has been completed, issues need to be re-evaluated over time to ensure they don't become stale incorrectly.

Track important issues

If an issue is at risk of being closed by the stale bot in the future, but is an important issue for the etcd project, then please apply the `stage/tracked` label and remove any `stale` labels that exist. This will ensure the project does

not lose sight of the issue.

Close incomplete issues

Issues that lack enough information from the issue reporter should be closed if the issue reporter does not provide information in 30 days. Issues can always be re-opened at a later date if new information is provided.

Check for incomplete work

If an issue owned by a developer has no pull request created in 30 days, contact the issue owner and kindly ask about the status of their work, or to release ownership on the issue if needed.

PR management

Purpose

Speed up PR management.

The `etcd` PRs are listed at <https://github.com/etcd-io/etcd/pulls>

A PR can have various labels, milestones, reviewers, etc. The detailed list of labels can be found at <https://github.com/kubernetes/kubernetes/labels>

Following are a few example searches on PR for convenience:

* [Open PRS for milestone etcd-v3.6](<https://github.com/etcd-io/etcd/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+milestone%3Aetcd-v3.6>)

* [PRs under investigation](<https://github.com/etcd-io/etcd/labels/Investigating>)

Scope

These guidelines serve as a primary document for managing PRs in `etcd`. Everyone is welcome to help manage PRs but the work and responsibilities discussed in this document are created with `etcd` maintainers and active contributors in mind.

Ensure tests are run

The etcd project use Kubernetes Prow and GitHub Actions to run tests. To ensure all required tests run if a pull request is ready for testing and still has the `needs-ok-to-test` label then please comment on the pull request `/ok-to-test`.

Handle inactive PRs

Poke PR owner if review comments are not addressed in 15 days. If the PR owner does not reply in 90 days, update the PR with a new commit if possible. If not, inactive PR should be closed after 180 days.

Poke reviewer if needed

Reviewers are responsive in a timely fashion, but considering everyone is busy, give them some time after requesting a review if a quick response is not provided. If the response is not provided in 10 days, feel free to contact them via adding a comment in the PR or sending an email or message on Slack.

Verify important labels are in place

Make sure that appropriate reviewers are added to the PR. Also, make sure that a milestone is identified. If any of these or other important labels are missing, add them. If a correct label cannot be decided, leave a comment for the maintainers to do so as needed.

Roadmap

etcd uses GitHub milestones to track all tasks in each major or minor release. The `roadmap.md` file only records the most important tasks for each release. The list is based on the current maintainer capacity that may shift over time. Proposed milestones are what we think we can deliver with the people we have. If we have more support on the important stuff, we could pick up more items from the backlog. Note that etcd will continue to mainly focus on technical debt over the next few major or minor releases.

Each item has an assigned priority. Refer to [priority definitions](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/triage_issues.md#step-5---prioritise-the-issue).

v3.6.0

For a full list of tasks in `v3.6.0`, please see [milestone etcd-v3.6](https://github.com/etcd-io/etcd/milestone/38).

Title	Priority	Status	Note
[Support downgrade](https://github.com/etcd-io/etcd/issues/11716)	priority/important-soon	In progress	etcd will support downgrade starting from 3.6.0. But it will also support offline downgrade from 3.5 to 3.4.
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	priority/important-soon	In progress	This task will be covered in both 3.6 and 3.7.
[Release raft 3.6.0](https://github.com/etcd-io/raft/issues/89)	priority/important-soon	Not started	etcd 3.6.0 will depends on raft 3.6.0
[Release bbolt 1.4.0](https://github.com/etcd-io/bbolt/issues/553)	priority/important-soon	Not started	etcd 3.6.0 will depends on bbolt 1.4.0
[Support /livez and /readyz endpoints](https://github.com/etcd-io/etcd/issues/16007)	priority/important-longterm	In progress	It provides clearer APIs, and can also work around the stalled writes issue
[Bump gRPC](https://github.com/etcd-io/etcd/issues/16290)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[Deprecate grpc-gateway or bump it](https://github.com/etcd-io/etcd/issues/14499)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.

[bbolt: Add logger into bbolt](https://github.com/etcd-io/bbolt/issues/509)		
priority/important-longterm Completed	It's important to diagnose bbolt issues	
[bbolt: Add surgery commands](https://github.com/etcd-io/bbolt/issues/370)		
priority/important-longterm Completed	Surgery commands are important for fixing corrupted db files	
[Evaluate and (Graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)	priority/backlog	Not started This task will be covered in both 3.6 and 3.7.

v3.7.0

For a full list of tasks in `v3.7.0`, please see [milestone etcd-v3.7](https://github.com/etcd-io/etcd/milestone/39).

Title	Priority	Note
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	P0	Finish the remaining tasks 3.7.
[Refactor lease: Lease might be revoked by mistake by old leader](https://github.com/etcd-io/etcd/issues/15247)	P1	to be investigated & discussed
[Integrate raft's new feature (async write) into etcd](https://github.com/etcd-io/etcd/issues/16291)	P1	It should improve the performance
[bbolt: Support customizing the bbolt rebalance threshold](https://github.com/etcd-io/bbolt/issues/422)	P2	It may get rid of etcd's defragmentation. Both bbolt and etcd need to be changed.
[Evaluate and (graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)	P2	Finish the remaining tasks 3.7.

Backlog (future releases)

Title	Priority	Note
[Remove the dependency on grpc-go's experimental API](https://github.com/etcd-io/etcd/issues/15145)		
[Protobuf: cleanup both golang/protobuf and gogo/protobuf](https://github.com/etcd-io/etcd/issues/14533)		
[Proposals should include a merkle root](https://github.com/etcd-io/etcd/issues/13839)		
[Add Distributed Tracing using OpenTelemetry](https://github.com/etcd-io/etcd/issues/12460)		
[Support CA rotation](https://github.com/etcd-io/etcd/issues/11555)		
[bbolt: Migrate all commands to cobra style commands](https://github.com/etcd-io/bbolt/issues/472)		
[raft: enhance the configuration change validation](https://github.com/etcd-io/raft/issues/80)		

Dependency management

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Main branch

The dependabot is enabled & [configured](https://github.com/etcd-io/etcd/blob/main/.github/dependabot.yml) to manage dependencies for etcd `main` branch. But dependabot doesn't work well for multi-module repository like `etcd`,

see [dependabot-core/issues/6678](https://github.com/dependabot/dependabot-core/issues/6678).

Usually, human intervention is required

each time when dependabot automatically opens some PRs to bump dependencies.

Please see the guidance below.

Dependencies used in workflows

The PRs that automatically bump dependencies (see examples below) used in workflows are fine and can be approved & merged directly as long as all checks are successful.

- [build(deps): bump github/codeql-action from 2.2.11 to 2.2.12](https://github.com/etcd-io/etcd/pull/15736)
- [build(deps): bump actions/checkout from 3.5.0 to 3.5.2](https://github.com/etcd-io/etcd/pull/15735)
- [build(deps): bump ossf/scorecard-action from 2.1.2 to 2.1.3](https://github.com/etcd-io/etcd/pull/15607)

Bumping order

When multiple etcd modules depend on the same package, please bump the package version for all the modules in the correct order. The rule is simple:

if module A depends on module B, then bump the dependency for module B before module A. If the two modules do not depend on each other, then

it doesn't matter to bump which module first. For

example, multiple modules depend on `github.com/spf13/cobra`, so we need to bump the dependency in the following order,

- go.etcd.io/etcd/pkg/v3
- go.etcd.io/etcd/server/v3
- go.etcd.io/etcd/etcdctl/v3
- go.etcd.io/etcd/etcdutl/v3
- go.etcd.io/etcd/tests/v3
- go.etcd.io/etcd/v3
- go.etcd.io/etcd/tools/v3

For more details about etcd Golang modules, please check <<https://etcd.io/docs/next/dev-internal/modules>>

Note the module `go.etcd.io/etcd/tools/v3` doesn't depend on any other modules, nor by any other modules, so it doesn't matter when to bump dependencies for it.

Steps to bump a dependency

Use the `github.com/spf13/cobra` as an example, follow the steps below to bump it from 1.6.1 to 1.7.0 for module `go.etcd.io/etcd/etcdctl/v3`,

```
```bash
cd ${ETCD_ROOT_DIR}/etcdctl
go get github.com/spf13/cobra@v1.7.0
go mod tidy
cd ..
./scripts/fix.sh
```
```

Execute the same steps for all other modules. When you finish bumping the dependency for all modules, then commit the change,

```
```bash
git
add .
git commit --signoff -m "dependency: bump github.com/spf13/cobra from 1.6.1 to 1.7.0"
```
```

Please close the related PRs which were automatically opened by dependabot.

When you bump multiple dependencies in one PR, it's recommended to create a separate commit for each dependency. But it isn't a must; for example, you can get all dependencies bumping for the module `go.etcd.io/etcd/tools/v3` included in one commit.

Indirect dependencies

Usually, we don't bump a dependency if all modules just indirectly depend on it, such as `github.com/go-logr/logr`.

If an indirect dependency (e.g. `D1`) causes any CVE or bugs that affect etcd, usually the module (e.g. `M1`, not part of etcd, but used by etcd) which depends on it should bump the dependency (`D1`), and then etcd just needs to bump `M1`. However, if the module (`M1`) somehow doesn't bump the problematic dependency, then etcd can still bump it (`D1`) directly following the same steps above. But as a long-term solution, etcd should try to remove the dependency on such module (`M1`) that lack maintenance.

For mixed cases, in which some modules directly while others indirectly depend on a dependency, we have multiple options,

- Bump the dependency for all modules, no matter it's direct or indirect dependency.
- Bump the dependency only for modules that directly depend on it.

We should try to follow the first way, and temporarily fall back to the second one if we run into any issue on the first way. Eventually we should fix the issue and ensure all modules depend on the same version of the dependency.

Known incompatible dependency updates

arduino/setup-protoc

Please refer to [build(deps): bump arduino/setup-protoc from 1.3.0 to 2.0.0](https://github.com/etcd-io/etcd/pull/16016)

Rotation worksheet

The dependabot scheduling interval is weekly; it means dependabot will automatically raise a bunch of PRs per week.

Usually, human intervention is required each time. We have a [rotation worksheet](https://docs.google.com/spreadsheets/d/1jodHIO7Dk2VWTs1IRnfMFaRktS9IH8XRyifOnPdSY8I/edit#gid=1394774387),

and

everyone is welcome to participate; you just need to register your name in the worksheet.

Stable branches

Usually, we don't proactively bump dependencies for stable releases unless there are any CVEs or bugs that affect etcd.

If we have to do it, then follow the same guidance above. Note that there is no `./scripts/fix.sh` in release-3.4, so no need to execute it for 3.4.

Golang versions

The etcd project aims to maintain a development branch that is on the latest [Go version](https://go.dev/dl), ideally, this will align with the Go version in use for Kubernetes project development. For an example of how to update etcd to a new minor release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16393> and the linked pull requests.

Suggested steps for performing a minor version upgrade for the etcd development branch:

1. Carefully review new Go version release notes and potentially related blog posts for any deprecations, performance impacts, or other considerations.
2. Create a GitHub issue to signal intent to upgrade and invite discussion, for example, <https://github.com/etcd-io/etcd/issues/16393>.
3. Complete the upgrade locally in your development environment.

4. Run performance benchmarks locally to compare before and after.
5. Raise a pull request for the changes, for example, <<https://github.com/etcd-io/etcd/pull/16394>>.

Stable etcd release branches will be maintained to stay on the latest patch release of a supported Go version. Upgrading minor versions will be completed before the minor version in use currently is no longer supported. Refer to the [Go release policy](<https://go.dev/doc/devel/release>).

For an example of how to update etcd to a new patch release of Go refer to issue <<https://github.com/etcd-io/etcd/issues/16343>> and the linked pull requests.

References:

- <<https://github.com/kubernetes/sig-release/blob/master/release-engineering/handbooks/go.md>>

##

Core dependencies mappings

[bbolt](<https://github.com/etcd-io/bbolt>) and [raft](<https://github.com/etcd-io/raft>) are two core dependencies of etcd.

Both etcd 3.4.x and 3.5.x depend on bbolt 1.3.x, and etcd 3.6.x (`main` branch) depends on bbolt 1.4.x.

raft is included in the etcd repository for release-3.4 and release-3.5 branches, so etcd 3.4.x and 3.5.x do not depend on any

external raft module. We moved raft into [a separate repository](<https://github.com/etcd-io/raft>) starting from 3.6 (`main` branch), and the first raft release will be v3.6.0, so etcd 3.6.x will depend on raft 3.6.x.

Please see the table below:

etcd versions	bbolt versions	raft versions
3.4.x	v1.3.x	N/A
3.5.x	v1.3.x	N/A
3.6.x	v1.4.x	v3.6.x

Release

The guide talks about how to release a new version of etcd.

The procedure includes some manual steps for sanity checking, but it can probably be further scripted. Please keep this document up-to-date if making changes to the release process.

Release management

The following pool of release candidates manages the release of each etcd major/minor version as well as manages patches

to each stable release branch. They are responsible for communicating the timelines and status of each release and for ensuring the stability of the release branch.

- Benjamin Wang [[@ahrtr](https://github.com/ahrtr)](https://github.com/ahrtr)
- James Blair [[@jmhbnz](https://github.com/jmhbnz)](https://github.com/jmhbnz)
- Marek Siarkowicz [[@serathius](https://github.com/serathius)](https://github.com/serathius)
- Sahdev Zala [[@spzala](https://github.com/spzala)](https://github.com/spzala)
- Wenjia Zhang [[@wenjiaswe](https://github.com/wenjiaswe)](https://github.com/wenjiaswe)

All release version numbers follow the format of [semantic versioning 2.0.0](http://semver.org/).

Major, minor version release, or its pre-release

- Ensure the relevant milestone on GitHub is complete. All referenced issues should be closed or moved elsewhere.
- Ensure the latest upgrade documentation is available.
- Bump [hardcoded MinClusterVerion in the repository](https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L29), if necessary.
- Add feature capability maps for the new version, if necessary.

Patch version release

- To request a backport, developers submit cherry-pick PRs targeting the release branch. The commits should not include merge commits. The commits should be restricted to bug fixes and security patches.
- The cherrypick PRs should target the appropriate release branch (`base:release-<major>-<minor>`). `hack/patch/cherrypick.sh` may be used to automatically generate cherrypick PRs.
- The release patch manager reviews the cherrypick PRs. Please discuss carefully what is backported to the patch release. Each patch release should be strictly better than its predecessor.
- The release patch manager will cherry-pick these commits starting from the oldest one into stable branch.

Write a release note

- Write an introduction for the new release. For example, what major bug we fix, what new features we introduce, or what performance improvement we make.
- Put `[GH XXXX]` at the head of the change line to reference the Pull Request that introduces the change. Moreover, add a link on it to jump to the Pull Request.
- Find PRs with the `release-note` label and explain them in the `NEWS` file, as a straightforward summary of changes for end-users.

Patch release criteria

The etcd project aims to release a new patch version if any of the following conditions are met:

- Fixed one or more major CVEs (≥ 7.5).
- Fixed one or more critical bugs.
- Fixed three or more major bugs.
- Fixed five or more minor bugs.

Release guide

Prerequisites

There are some prerequisites, which should be done before the release process. These are one-time operations, which don't need to be executed before releasing each version.

1. Generate a GPG key and add it to your GitHub account. Refer to the links on [settings](https://github.com/settings/keys).
2. Ensure you have a Linux machine, on which the git, Golang, and docker have been installed.
 - Ensure the Golang version matches the version defined in `.go-version`` file.
 - Ensure non-privileged users can run docker commands, refer to the [Linux postinstall](https://docs.docker.com/engine/install/linux-postinstall/).
 - Ensure there is at least 5GB of free space on your Linux machine.
3. Install gsutil, refer to [gsutil_install](https://cloud.google.com/storage/docs/gsutil_install). When asked about cloud project to use, pick ``etcd-development``.
4. Authenticate the image registry, refer to [Authentication methods](https://cloud.google.com/container-registry/docs/advanced-authentication).
 - ``gcloud auth login``
 - ``gcloud auth configure-docker``

Release steps

1. Raise an issue to publish the release plan, e.g. [issues/17350](https://github.com/etcd-io/etcd/issues/17350).
2.
Verify you can pass the authentication to the image registries,
 - ``docker login gcr.io``
 - ``docker login quay.io``
3. Clone the etcd repository and checkout the target branch,
 - ``git clone git@github.com:etcd-io/etcd.git``
 - ``git checkout release-3.X``
4. Run the release script under the repository's root directory, replacing ``${VERSION}`` with a value without the ``v`` prefix, i.e. ``3.5.13``.
 - ``DRY_RUN=false ./scripts/release.sh ${VERSION}``

It generates all release binaries under the directory ``./release`` and images. Binaries are pushed to the Google Cloud bucket

under project ``etcd-development``, and images are pushed to ``quay.io`` and ``gcr.io``.

5. Publish the release page on GitHub
 - Set the release title as the version name
 - Choose the correct release tag (generated from step #4)
 - Follow the format of previous release pages
 - Attach the generated binaries and signature file
 - Select whether it's a pre-release
 - Publish the release
6. Announce to the etcd-dev googlegroup

Follow the format of previous release emails sent to `etcd-dev@googlegroups.com`, see an example below. After

sending out the email, ask one of the mailing list maintainers to approve the email from the pending list.

...

Hello,

etcd v3.4.30 is now public!

<https://github.com/etcd-io/etcd/releases/tag/v3.4.30>

Thanks to everyone who contributed to the release!

etcd team

...

7. Update the changelog to reflect the correct release date.

8. Paste the release link to the issue raised in Step 1 and close the issue.

9. Create a new stable branch through ``git push origin release-${VERSION_MAJOR}.${VERSION_MINOR}`` if this is a new major or minor stable release.

Release known issues

1. Timeouts pushing binaries - If binaries fail to fully upload to Google Cloud storage, the script must be re-run using the same command. Any artifacts that are already pushed will be overwritten to ensure they are correct. The storage bucket does not use object versioning so incorrect files cannot remain.

2. Timeouts pushing images - It is rare, although possible for connection timeouts to occur when publishing etcd release images to ``quay.io`` or ``gcr.io``. If this occurs, it is known to be safe to rerun the release script command appending the ``--no-upload`` flag, and image uploads will gracefully resume.

3. GPG vs SSH signing - The release scripts assume that git tags will be signed with a GPG key. Since 2022 GitHub has supported [signing commits and tags using ssh](<https://github.blog/changelog/2022-08-23-ssh-commit-verification-now-supported>). Until further release script updates are completed you will need to disable this feature in your `~/.gitconfig`` and revert to signing via GPG to perform etcd releases.

Golang modules

The etcd project (since version 3.5) is organized into multiple

[golang modules](<https://golang.org/ref/mod>) hosted in a [single repository](<https://golang.org/ref/mod#vcs-dir>).

![modules graph](modules.svg)

There are the following modules:

- **go.etcd.io/etcd/api/v3** - contains API definitions (like protos & proto-generated libraries) that defines communication protocol between etcd clients and servers.

- **go.etcd.io/etcd/pkg/v3** - a collection of utility packages used by etcd without being specific to etcd itself. A package belongs here only if it could possibly be moved out into its own repository in the future. Please avoid adding here code that has a lot of dependencies on its own, as

they automatically become dependencies of the client library
(that we want to keep lightweight).

- **go.etcd.io/etcd/client/v3** - client library used to contact etcd over
the network (grpc). Recommended for all new usage of etcd.

- **go.etcd.io/raft/v3**

- implementation of distributed consensus
protocol. Should have no etcd specific code. Hosted in a separate repository:
<https://github.com/etcd-io/raft>.

- **go.etcd.io/etcd/server/v3** - etcd implementation.

The code in this package is internal to etcd and should not be consumed
by external projects. The package layout and API can change within the minor versions.

- **go.etcd.io/etcd/etcdctl/v3** - a command line tool to access and manage etcd.

- **go.etcd.io/etcd/tests/v3** - a module that contains all integration tests of etcd.

Notice: All unit tests (fast and not requiring cross-module dependencies)
should be kept in the local modules of the code under the test.

- **go.etcd.io/bbolt** - implementation of persistent b-tree.

Hosted in a separate repository: <https://github.com/etcd-io/bbolt>.

Operations

1. All etcd modules should be released in the same versions, e.g.

`go.etcd.io/etcd/client/v3@v3.5.10` must depend on `go.etcd.io/etcd/api/v3@v3.5.10`.`

The consistent updating of versions can be performed using:

```
```shell script
% DRY_RUN=false TARGET_VERSION="v3.5.10" ./scripts/release_mod.sh update_versions
```
```

2. The released modules should be tagged according to <https://golang.org/ref/mod#vcs-version> rules,
i.e. each module should get its own tag.

The tagging can be performed using:

```
```shell script
% DRY_RUN=false REMOTE_REPO="origin" ./scripts/release_mod.sh push_mod_tags
```
```

3. All etcd modules should depend on the same versions of underlying dependencies.

This can be verified using:

```
```shell script
% PASSES="dep" ./test.sh
```
```

4. The go.mod files must not contain dependencies not being used and must

conform to `go mod tidy` format.

This is being verified by:

```
...
```

```
% PASSES="mod_tidy" ./test.sh
```

```
...
```

5. To trigger actions across all modules (e.g. auto-format all files), please

use/expand the following script:

```
```shell script
```

```
% ./scripts/fix.sh
```

```
```
```

###

Future

As a North Star, we would like to evaluate etcd modules towards the following model:

![modules graph](modules-future.svg)

This assumes:

- Splitting etcdmigrate/etcdadm out of etcdctl binary.

Thanks to this etcdctl would become clearly a command-line wrapper around network client API,

while etcdmigrate/etcdadm would support direct physical operations on the etcd storage files.

- Splitting etcd-proxy out of ./etcd binary, as it contains more experimental code so carries additional risk & dependencies.

- Deprecation of support for v2 protocol.

Reporting bugs

If any part of the etcd project has bugs or documentation mistakes, please let us know by [opening an issue][etcd-issue]. We treat bugs and mistakes very seriously and believe no issue is too small. Before creating a bug report, please check that an issue reporting the same problem does not already exist.

To make the bug report accurate and easy to understand, please try to create bug reports that are:

- Specific. Include as many details as possible: which version, what environment, what configuration, etc. If the bug is related to running the etcd server, please attach the etcd log (the starting log with the etcd configuration is especially important).

- Reproducible. Include the steps to reproduce the problem. We understand some issues might be hard to reproduce, please include the steps that might lead to the problem. If possible, please attach the affected etcd data dir and stack trace to the bug report.

- Isolated. Please try to isolate and reproduce the bug with minimum dependencies. It would significantly slow down the speed to fix a bug if too many dependencies are involved in a bug report. Debugging external systems that rely on etcd is out of scope, but we are happy to provide guidance in the right direction or help with using etcd itself.

- Unique. Do not duplicate existing bug reports.
- Scoped. One bug per report. Do not follow up with another bug inside one report.

It may be worthwhile to read [Elika Etemads article on filing good bug reports][filing-good-bugs] before creating a bug report.

We might ask for further information to locate a bug. A duplicated bug report will be closed.

Frequently asked questions

How to get a stack trace

```
``` bash
$ kill -QUIT $PID
```
```

How to get the etcd version

```
``` bash
$ etcd --version
```
```

How to get etcd configuration and log when it runs as systemd service etcd2.service

```
``` bash
$ sudo systemctl cat etcd2
$ sudo journalctl -u etcd2
```
```

Due to an upstream systemd bug, journald may miss the last few log lines when its processes exit. If journalctl says etcd stopped without a fatal or panic message, try `sudo journalctl -f -t etcd2` to get the full log.

[etcd-issue]: <https://github.com/etcd-io/etcd/issues/new>
[filing-good-bugs]: <http://fantasai.inkedblade.net/style/talks/filing-good-bugs/>
Community membership

This doc outlines the various responsibilities of contributor roles in etcd.

Role	Responsibilities	Requirements	Defined by
Member	Active contributor in the community etcd GitHub org member	Sponsored by 2 reviewers and multiple contributions	
Reviewer	Review contributions from other members	History of review and authorship	

[OWNERS] file reviewer entry |
| Maintainer | Set direction and priorities for the project | Demonstrated responsibility and excellent technical judgement | [OWNERS] file approver entry |

New contributors

New contributors should be welcomed to the community by existing members, helped with PR workflow, and directed to relevant documentation and communication channels.

Established community members

Established community members are expected to demonstrate their adherence to the principles in this document, familiarity with project organization, roles, policies, procedures, conventions, etc., and technical and/or writing ability. Role-specific expectations, responsibilities, and requirements are enumerated below.

Member

Members are continuously active contributors to the community. They can have issues and PRs assigned to them. Members are expected to remain active contributors to the community.

****Defined by:**** Member of the etcd GitHub organization.

Requirements

- Enabled [two-factor authentication] on their GitHub account
- Have made multiple contributions to the project or community. Contribution may include, but is not limited to:
 - Authoring or reviewing PRs on GitHub. At least one PR must be ****merged****.
 - Filing or commenting on issues on

GitHub

- Contributing to community discussions (e.g. meetings, Slack, email discussion forums, Stack Overflow)
- Subscribed to [etcd-dev@googlegroups.com](https://groups.google.com/g/etcd-dev)
- Have read the [contributor guide]
- Sponsored by two active maintainers or reviewers.
 - Sponsors must be from multiple member companies to demonstrate integration across the community.
 - With no objections from other maintainers
- Open a [membership nomination] issue against the `kubernetes/org` repo
 - Ensure your sponsors are @mentioned on the issue
 - Make sure that the list of contributions included is representative of your work on the project.
- Members can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Responsive to issues and PRs assigned to them
- Granted "triage access" to etcd project
- Active owner of code they have contributed (unless ownership is explicitly transferred)
 - Code is well-tested
 - Tests consistently pass
 - Addresses bugs or issues discovered after code is accepted

Note: Members who frequently contribute code are expected to proactively perform code reviews and work towards becoming a *reviewer*.

Reviewers

Reviewers are contributors who have demonstrated greater skill in reviewing the code from other contributors. They are knowledgeable about both the codebase and software engineering principles. Their LGTM counts towards merging a code change into the project. A reviewer is generally on the ladder towards maintainership.

Defined by: *reviewers* entry in the [OWNERS] file.

Requirements

- member for at least 3 months.
- Primary reviewer for at least 5 PRs to the codebase.
- Reviewed or contributed at least 20 substantial PRs to the codebase.
- Knowledgeable about the codebase.
- Sponsored by two active maintainers.
 - Sponsors must be from multiple member companies to demonstrate integration across the community.
 - With no objections from other maintainers
- Reviewers can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Code reviewer status may be a precondition to accepting large code contributions
- Responsible for project quality control via code reviews
 - Focus on code quality and correctness, including testing and factoring
 - May also review for more holistic issues, but not a requirement
- Expected to be responsive to review requests
- Assigned PRs to review related to area of expertise
- Assigned test bugs related to area of expertise
- Granted "triage access" to etcd project

Maintainers

Maintainers are first and foremost contributors who have shown they

are committed to the long-term success of a project. Maintainership is about building trust with the current maintainers and being a person that they can depend on to make decisions in the best interest of the project in a consistent manner.

****Defined by:**** ***approvers*** entry in the [OWNERS] file.

Requirements

- Deep understanding of the technical goals and direction of the project
 - Deep understanding of the technical domain of the project
 - Sustained contributions to design and direction by doing all of:
 - Authoring and reviewing proposals
 - Initiating, contributing, and resolving discussions (emails, GitHub issues, meetings)
 - Identifying subtle or complex issues in the designs and implementation of PRs
 - Directly contributed to the project through implementation and/or review
 - Sponsored by two active maintainers and elected by supermajority
 - Sponsors must be from multiple member companies to demonstrate integration across the community.
 - To become a maintainer send an email with your candidacy to etcd-maintainers-private@googlegroups.com
 - Ensure your sponsors are @mentioned in the email
 - Include a list of contributions representative of your work on the project.
 -
- Existing maintainers vote will privately and respond to the email with either acceptance or feedback for suggested improvement.
- With your membership approved you are expected to:
 - Open a PR and add an entry to the [OWNERS] file
 - Subscribe to etcd-maintainers@googlegroups.com and etcd-maintainers-private@googlegroups.com
 - Request to join [etcd-maintainer teams of etcd organization of GitHub](<https://github.com/orgs/etcd-io/teams/maintainers-etcd>)
 - Request to join the private slack channel for etcd maintainers on [kubernetes slack](<http://slack.kubernetes.io/>)
 - Request access to etcd-development GCP project where we publish releases
 - Request access to passwords shared between maintainers

Responsibilities and privileges

- Make and approve technical design decisions
- Set technical direction and priorities
- Define milestones and releases
- Mentor and guide reviewers, and contributors to the project.
- Participate when called upon in the [security disclosure and release process]
- Ensure the continued health of the project
 - Adequate test coverage to confidently release
 - Tests are passing reliably (i.e. not flaky) and are fixed when they fail
- Ensure a healthy process for discussion and decision-making is in place.
- Work with other maintainers to maintain the project's overall health and success holistically

Retiring

Life priorities, interests, and passions can change. Maintainers can retire and move to [emeritus maintainers]. If a maintainer needs to step down, they should inform other maintainers and, if possible, help find someone to pick up the related work. At the very least, ensure the related work can be continued. Afterward, they can remove themselves from the list of existing maintainers.

If a maintainer has not been performing their duties for 12 months, they can be removed by other maintainers. In that case, the inactive maintainer will be first notified via an email. If the situation doesn't improve, they will be removed.

If an emeritus maintainer wants to regain an active role, they can do so by renewing their contributions. Active maintainers should welcome such a move. Retiring other maintainers or regaining the status should require the approval of at least two active maintainers.

Acknowledgements

Contributor roles and responsibilities were written based on [Kubernetes community membership]

[OWNERS]: /OWNERS

[contributor guide]: /CONTRIBUTING.md

[membership nomination]: <https://github.com/kubernetes/org/issues/new?assignees=&labels=area%2Fgithub-membership&projects=&template=membership.yml&title=REQUEST%3A+New+membership+for+%3Cyour-GH-handle%3E>

[Kubernetes community membership]: <https://github.com/kubernetes/community/blob/master/community-membership.md>

[emeritus maintainers]: /README.md#etcd-emeritus-maintainers

[security disclosure and release process]: /security/README.md

[two-factor authentication]: <https://docs.github.com/en/authentication/securing-your-account-with-two-factor-authentication-2fa/about-two-factor-authentication>

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Version 2.0, January 2004

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1. Definitions.

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"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

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Logging Conventions

etcd uses the [zap][zap] library for logging application output categorized into *levels*. A log message's level is determined according to these conventions:

* **Debug:** Everything is still fine, but even common operations may be logged, and less helpful but more quantity of notices. Usually not used in production.

* Examples:

- * Send a normal message to a remote peer
- * Write a log entry to disk

* **Info:** Normal, working log information, everything is fine, but helpful notices for auditing or common operations. Should rather not be logged more frequently than once per a few seconds in a normal server's operation.

* Examples:

- * Startup configuration
- * Start to do a snapshot

* **Warning:** (Hopefully) Temporary conditions that may cause errors, but may work fine. A replica disappearing (that may reconnect) is a warning.

* Examples:

- * Failure to send a raft message to a remote peer
- * Failure to receive heartbeat message within the configured election timeout

* **Error:** Data has been lost, a request has failed for a bad reason, or a required resource has been lost.

* Examples:

- * Failure to allocate disk space for WAL

* **Panic:** Unrecoverable or unexpected error situation that requires stopping execution.

* Examples:

- * Failure to create the database

* **Fatal:** Unrecoverable or unexpected error situation that requires immediate exit. Mostly used in the test.

* Examples:

- * Failure to find the data directory
- * Failure to run a test function

[zap]: <https://github.com/uber-go/zap>

1.207 go-yaml

18.05.0+ce+gitf150324782643a5268a04e7d1a

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1.208 gojsonreference

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1.210 gojsonschema

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1.211 purell

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1.216 go-jmespath

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```
{
"testfiles": [
"test/*.uts",
```

```

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

```

1.223 openconfig-gnoi 0.0.0-20210902152759-d6d0463a58fe

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in object code or executable form with such
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<one line to give the program's name and a brief idea of what it does.>

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

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

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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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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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<signature of Ty Coon>, 1 April 1990
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1.231 keyutils 1.5.8

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Version 2.1, February 1999

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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,

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1.232 usbutils 7

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

The hypothetical commands ``show w'` and ``show c'` should show the appropriate
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```
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```

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

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The End

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1.237 cpp 4.9.1

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Version 2.1, February 1999

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Version 3.1, 31 March 2009

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

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

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

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Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) Copyright (c) 2001, Thai Open Source Software Center Ltd, Sun Microsystems. All rights reserved.

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David Megginson,
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* m4/ax_func_which_gethostbyname_r.m4

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```
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@center Version 2.1, February 1999

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@end iftex

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

*/

/* zutil.c -- target dependent utility functions for the compression library

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*/

1.240 libedit 0.53

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1.241 pax-utils 1.3.4-r0

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1.247 openssl 1.1.1q-r0

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Description: Bindings to OpenSSL libssl and libcrypto, plus custom SSH pubkey parsers. Supports RSA, DSA and EC curves P-256, P-384 and P-521. Cryptographic signatures can either be created and verified manually or via x509 certificates. AES can be used in cbc, ctr or gcm mode for symmetric encryption; RSA for asymmetric (public key) encryption or EC for Diffie Hellman. High-level envelope functions combine RSA and AES for encrypting arbitrary sized data. Other utilities include key generators, hash functions (md5, sha1, sha256, etc), base64 encoder, a secure random number generator, and 'bignum' math methods for manually performing crypto calculations on large multibyte integers.

Packaged: 2018-11-15 13:15:06 UTC; jeroen

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Title: Toolkit for Encryption, Signatures and Certificates Based on OpenSSL

URL: <https://github.com/jeroen/openssl#readme>

BugReports: <https://github.com/jeroen/openssl/issues>

SystemRequirements:

OpenSSL >= 1.0.1

RoxygenNote: 6.1.1

VignetteBuilder: knitr

Maintainer: Jeroen Ooms <jeroen@berkeley.edu>

Type: Package

Repository: CRAN

Version: 1.1

Suggests: testthat, digest, knitr, rmarkdown, jsonlite, jose

NeedsCompilation: yes

Author: Jeroen Ooms [aut, cre] (<<https://orcid.org/0000-0002-4035-0289>>), Oliver Keyes [ctb]
Package: openssl
Authors@R: c(person("Jeroen", "Ooms", role = c("aut", "cre"), email = "jeroen@berkeley.edu", comment = c(ORCID = "0000-0002-4035-0289")), person("Oliver", "Keyes", role = "ctb"))
Date/Publication: 2018-11-15 14:20:03 UTC

Found in path(s):

* /openssl-1-1-b1-jar/org/renjin/cran/openssl/DESCRIPTION

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/*! Respond.js v1.4.2: min/max-width media query polyfill * Copyright 2013 Scott Jehl

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Found in path(s):

* /openssl-1-1-b1-jar/org/renjin/cran/openssl/doc/secure_rng.html

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* /openssl-1-1-b1-jar/org/renjin/cran/openssl/doc/keys.html

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1.248 protobuf-c 1.3.3

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1.249 busybox 1.35.0-r18

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.253 pyyaml 3.12

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1.254 alpine-baselayout 3.2.0-r23

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/alpine-baselayout-3-2-0-r23-tgz/z: binary file matches

Found in path(s):

* /bin/grep

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/*

* Create mount directories in fstab

*

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*

* usage: mkmntdirs [fstab]

*

*/

Found in path(s):

* /alpine-baselayout-3-2-0-r23-tgz/mkmntdirs.c

1.255 netkit-ftp 20130505

1.255.1 Available under license :

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1.256 openssl 3.0.5-r3

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#
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# ftp://ftp.invisible-island.net/ncurses/6.3/ncurses-6.3-20221008.patch.gz
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created Sat Oct 8 23:49:01 UTC 2022
# -----
# NEWS          | 9+++++++-
# VERSION
#               | 2+-
# configure      | 4++--
# configure.in   | 6+++---
# dist.mk        | 4++--
# misc/gen-pkgconfig.in | 8+++++++-
# package/debian-mingw/changelog | 4++--
# package/debian-mingw64/changelog | 4++--
# package/debian/changelog | 4++--
# package/mingw-ncurses.nsi | 4++--
# package/mingw-ncurses.spec | 2+-
# package/ncurses.spec | 2+-
# package/ncurset.spec | 2+-
# 13 files changed, 33 insertions(+), 22 deletions(-)
# -----
Index: NEWS
Prereq: 1.3862
--- ncurses-6.3-20221001+/NEWS 2022-10-01 22:20:28.000000000 +0000
+++ ncurses-6.3-20221008/NEWS 2022-10-08 16:50:03.000000000 +0000
@@@ -26,7 +26,7 @@@
-- sale, use or other dealings in this Software without prior written --
-- authorization.
--
-----
--- $Id: NEWS,v 1.3862 2022/10/01 22:20:28 tom Exp $
+-- $Id: NEWS,v 1.3864 2022/10/08 16:50:03 tom Exp $
-----

This is a log of changes that ncurses has gone through since Zeyd started
@@@ -46,6 +46,13 @@@
Changes through 1.9.9e did not credit all contributions;
it is not possible to add this information.

+20221008
+ + correct a switch-statement case in configure script to allow for test
+ builds with ABI=7.
+ + modify misc/gen-pkgconfig.in to allow for the case where the library
+ directory does not yet exist, since this is processed before doing an

```

```

+ install (report by Michal Liszcz).
+
20221001
+ modify configure/scripts to work around interference by GNU grep 3.8
  (report by Sam James).
Index: VERSION
--- ncurses-6.3-20221001+/VERSION 2022-10-01 09:34:57.000000000 +0000
+++ ncurses-6.3-20221008/VERSION 2022-10-08
  10:25:44.000000000 +0000
@@ -1 +1 @@
-5:0:10 6.3 20221001
+5:0:10 6.3 20221008
Index: configure
--- ncurses-6.3-20221001+/configure 2022-10-01 13:25:01.000000000 +0000
+++ ncurses-6.3-20221008/configure 2022-10-08 16:55:47.000000000 +0000
@@ -1,5 +1,5 @@
#!/bin/sh
-# From configure.in Revision: 1.749 .
+# From configure.in Revision: 1.750 .
# Guess values for system-dependent variables and create Makefiles.
# Generated by Autoconf 2.52.20210509.
#
@@ -15409,7 +15409,7 @@
(6)
NCURSES_MOUSE_VERSION=2
;;
-(789)
+([789])
NCURSES_MOUSE_VERSION=3
;;
esac
Index: configure.in
Prereq: 1.749
--- ncurses-6.3-20221001+/configure.in 2022-10-01 13:16:18.000000000 +0000
+++ ncurses-6.3-20221008/configure.in 2022-10-08 15:54:35.000000000 +0000
@@ -29,7 +29,7 @@
dnl
dnl Author: Thomas E. Dickey 1995-on
dnl
-dnl $Id: configure.in,v 1.749 2022/10/01 13:16:18 tom Exp $
+dnl $Id: configure.in,v 1.750 2022/10/08 15:54:35 tom Exp $
dnl Process this file
  with autoconf to produce a configure script.
dnl
dnl For additional information, see
@@ -38,7 +38,7 @@
dnl
dnl -----

```

```

AC_PREREQ(2.52.20210101)
-AC_REVISION($Revision: 1.749 $)
+AC_REVISION($Revision: 1.750 $)
AC_INIT(ncurses/base/lib_initscr.c)
AC_CONFIG_HEADER(include/ncurses_cfg.h:include/ncurses_cfg.hin)

@@ -1272,7 +1272,7 @@
(6)
NCURSES_MOUSE_VERSION=2
;;
-([789])
+([[789]])
NCURSES_MOUSE_VERSION=3
;;
esac
Index: dist.mk
Prereq: 1.1505
--- ncurses-6.3-20221001+/dist.mk 2022-10-01 13:15:31.000000000 +0000
+++ ncurses-6.3-20221008/dist.mk 2022-10-08 10:25:44.000000000 +0000
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written      #
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#####
-# $Id: dist.mk,v 1.1505 2022/10/01 13:15:31 tom Exp $
+# $Id: dist.mk,v
1.1506 2022/10/08 10:25:44 tom Exp $
# Makefile for creating ncurses distributions.
#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 3
-NCURSES_PATCH = 20221001
+NCURSES_PATCH = 20221008

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/gen-pkgconfig.in
Prereq: 1.55
--- ncurses-6.3-20221001+/misc/gen-pkgconfig.in 2022-08-27 19:07:03.000000000 +0000
+++ ncurses-6.3-20221008/misc/gen-pkgconfig.in 2022-10-08 16:45:20.000000000 +0000
@@ -1,5 +1,5 @@
#!@SHELL@
-# $Id: gen-pkgconfig.in,v 1.55 2022/08/27 19:07:03 tom Exp $
+# $Id: gen-pkgconfig.in,v 1.56 2022/10/08 16:45:20 tom Exp $
#####
# Copyright 2018-2021,2022 Thomas E. Dickey                                #

```

```

# Copyright 2009-2015,2018
Free Software Foundation, Inc.          #
@@ -103,7 +103,11 @@
;;
-L*)
lib_check=`echo "x$opt" | sed -e 's/^.-L//'`
- [ -d "$lib_check" ] || continue
+ # on a new/nonstandard install, $libdir may not yet exist at this point
+ if [ "$libdir" != "$lib_check" ]
+ then
+ [ -d "$lib_check" ] || continue
+ fi
case "$lib_check" in
@LD_SEARCHPATH@) # skip standard libdir
if [ "$lib_check" = "$libdir" ]
Index: package/debian-mingw/changelog
--- ncurses-6.3-20221001+/package/debian-mingw/changelog 2022-10-01 09:34:57.000000000 +0000
+++ ncurses-6.3-20221008/package/debian-mingw/changelog 2022-10-08 10:25:44.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6 (6.3+20221001) unstable; urgency=low
+ncurses6 (6.3+20221008) unstable; urgency=low

* latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net> Fri, 30 Sep 2022 20:16:53 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 08 Oct 2022 06:25:44 -0400

ncurses6 (5.9-20131005)
unstable; urgency=low

Index: package/debian-mingw64/changelog
--- ncurses-6.3-20221001+/package/debian-mingw64/changelog 2022-10-01 09:34:57.000000000 +0000
+++ ncurses-6.3-20221008/package/debian-mingw64/changelog 2022-10-08 10:25:44.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6 (6.3+20221001) unstable; urgency=low
+ncurses6 (6.3+20221008) unstable; urgency=low

* latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net> Fri, 30 Sep 2022 20:16:53 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 08 Oct 2022 06:25:44 -0400

ncurses6 (5.9-20131005) unstable; urgency=low

Index: package/debian/changelog
--- ncurses-6.3-20221001+/package/debian/changelog 2022-10-01 09:34:57.000000000 +0000
+++ ncurses-6.3-20221008/package/debian/changelog 2022-10-08 10:25:44.000000000 +0000
@@ -1,8 +1,8 @@

```

-ncurses6 (6.3+20221001) unstable; urgency=low
+ncurses6 (6.3+20221008) unstable; urgency=low

* latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>

Fri, 30 Sep 2022 20:16:53 -0400

+ -- Thomas E. Dickey <dickey@invisible-island.net> Sat, 08 Oct 2022 06:25:44 -0400

ncurses6 (5.9-20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi

Prereq: 1.544

--- ncurses-6.3-20221001+/package/mingw-ncurses.nsi 2022-10-01 09:34:57.000000000 +0000

+++ ncurses-6.3-20221008/package/mingw-ncurses.nsi 2022-10-08 10:25:44.000000000 +0000

@@ -1,4 +1,4 @@

-\$Id: mingw-ncurses.nsi,v 1.544 2022/10/01 09:34:57 tom Exp \$

+\$Id: mingw-ncurses.nsi,v 1.545 2022/10/08 10:25:44 tom Exp \$

; TODO add examples

; TODO bump ABI to 6

@@ -10,7 +10,7 @@

!define VERSION_MAJOR "6"

!define VERSION_MINOR "3"

!define VERSION_YYYY "2022"

!define VERSION_MMDD "1001"

+!define VERSION_MMDD "1008"

!define VERSION_PATCH \${VERSION_YYYY}\${VERSION_MMDD}

!define MY_ABI "5"

Index: package/mingw-ncurses.spec

--- ncurses-6.3-20221001+/package/mingw-ncurses.spec 2022-10-01 09:34:57.000000000 +0000

+++ ncurses-6.3-20221008/package/mingw-ncurses.spec 2022-10-08

10:25:44.000000000 +0000

@@ -3,7 +3,7 @@

Summary: shared libraries for terminal handling

Name: mingw32-ncurses6

Version: 6.3

-Release: 20221001

+Release: 20221008

License: X11

Group: Development/Libraries

Source: ncurses-%{version}-%{release}.tgz

Index: package/ncurses.spec

--- ncurses-6.3-20221001+/package/ncurses.spec 2022-10-01 09:34:57.000000000 +0000

+++ ncurses-6.3-20221008/package/ncurses.spec 2022-10-08 10:25:44.000000000 +0000

@@ -1,7 +1,7 @@

Summary: shared libraries for terminal handling

Name: ncurses6
 Version: 6.3
 -Release: 20221001
 +Release: 20221008
 License: X11
 Group: Development/Libraries
 Source: ncurses-%{version}-%{release}.tgz
 Index: package/ncurset.spec
 --- ncurses-6.3-20221001+/package/ncurset.spec 2022-10-01 09:34:57.000000000 +0000
 +++ ncurses-6.3-20221008/package/ncurset.spec 2022-10-08 10:25:44.000000000 +0000
 @@ -1,7 +1,7 @@
 Summary: Curses library with POSIX thread support.
 Name: ncurses6
 Version: 6.3
 -Release: 20221001
 +Release:
 20221008
 License: X11
 Group: Development/Libraries
 Source: ncurses-%{version}-%{release}.tgz

 Found in path(s):
 * /ncurses-6-3-20221008-patch-gz/ncurses-6.3-20221008.patch

1.258 readline 8.2.0-r0

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1.260 pinentry 1.2.1

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1.263 upstart 1.13.2

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```
--- upstart-1.13.2.orig/ChangeLog
+++ upstart-1.13.2/ChangeLog
@@ -1,3 +1,15 @@
+2014-09-08 James Hunt <james.hunt@ubuntu.com>
+
+ * util/telinit.c: Remove UPSTART_TELINIT_U_NO_WAIT check as it
+ shouldn't realistically be needed.
+
+2014-08-21 James Hunt <james.hunt@ubuntu.com>
+
+ * util/telinit.c: restart_upstart():
+ - Revert to synchronous behaviour coupled with unavoidable
+ poll to ensure telinit only returns once a re-exec has
+ completed (LP: #901038).
+
2014-09-04 James Hunt <james.hunt@ubuntu.com>

* NEWS: Release 1.13.2
--- upstart-1.13.2.orig/conf/rc-sysinit.conf
+++ upstart-1.13.2/conf/rc-sysinit.conf
@@ -6,7 +6,7 @@
description "System V initialisation compatibility"
author "Scott James Remnant <scott@netsplit.com>"

-start on startup
+start on (filesystem and static-network-up) or failsafe-boot
stop on runlevel

# Default runlevel, this may be overridden on the kernel command-line
@@
-23,9 +23,11 @@
env RUNLEVEL=
env PREVLEVEL=
```

```

+console output
+env INIT_VERBOSE
+
task

-console owner
script
    # Check for default runlevel in /etc/inittab
    if [ -r /etc/inittab ]
--- upstart-1.13.2.orig/conf/rc.conf
+++ upstart-1.13.2/conf/rc.conf
@@ -6,13 +6,23 @@
description "System V runlevel compatibility"
author "Scott James Remnant <scott@netsplit.com>"

+emits deconfiguring-networking
+emits unmounted-remote-filesystems
+
start on runlevel [0123456]
stop on runlevel [!$RUNLEVEL]

export RUNLEVEL
export PREVLEVEL

+console output
+env INIT_VERBOSE
+
task

-console output
-exec /etc/init.d/rc $RUNLEVEL
+script
+if [ "$RUNLEVEL" = "0" -o "$RUNLEVEL" = "1" -o "$RUNLEVEL" = "6" ]; then
+ status plymouth-shutdown 2>/dev/null >/dev/null && start wait-for-state WAITER=rc WAIT_FOR=plymouth-
shutdown || :
+fi
+/etc/init.d/rc $RUNLEVEL
+end script
--- upstart-1.13.2.orig/configure.ac
+++ upstart-1.13.2/configure.ac
@@ -8,7 +8,7 @@

AC_GNU_SOURCE

-AM_INIT_AUTOMAKE([1.10
gnu nostdinc check-news color-tests silent-rules])
+AM_INIT_AUTOMAKE([1.10 gnu nostdinc check-news color-tests silent-rules serial-tests])
AM_SILENT_RULES([yes])

```

AM_MAINTAINER_MODE([enable])

@@ -119,6 +119,15 @@

AM_CONDITIONAL([HAVE_ABI_CHECKER], [test ! -z "\$ABI_COMPLIANCE_CHECKER" && test -e "\$srcdir"/lib/abi/"\$host_cpu"-"\$host_os"/*.abi])

```
+AC_ARG_ENABLE(selinux,
+  AS_HELP_STRING([--enable-selinux], [enable SELinux support]),
+  [], [enable_selinux=no])
+
+if test "x$enable_selinux" = "xyes" ; then
+  PKG_CHECK_MODULES(SELINUX, [libselenium])
+  AC_DEFINE(HAVE_SELINUX, 1, [Define if we have SELinux])
+fi
+
+# Checks for header files.
+AC_CHECK_HEADERS([valgrind/valgrind.h, sys/prctl.h])
```

--- upstart-1.13.2.orig/debian/README.Debian

+++ upstart-1.13.2/debian/README.Debian

@@ -0,0 +1,200 @@

+upstart

+=====

+

+Upstart is a replacement for the traditional sysvinit package, and

+runs as process #1. Through upstart, we are able to have an

+event-driven

process, whilst at the same time retaining compatibility

+for the original sysvinit behaviour.

+

+This file documents how to do a few common operations with the new

+system.

+

+

+Where are initscripts installed?

+-----

+

+This has not changed, they are installed in /etc/init.d. See

+/etc/init.d/README.

+

+Important system jobs are no longer shipped as initscripts, but as

+upstart jobs. These are installed in /etc/init

+

+

+How are initscripts started and stopped?

+-----

+

+This has not changed, symlinks are made from the initscript in the
+/etc/init.d directory to the /etc/rc?.d directories. See
+/etc/init.d/README and /etc/rc?.d/README.

+
+

+What order are initscripts started and stopped in?
+-----

+
+This has not changed, the symlinks are named SNNname or KNNname, where
+NN is a number from 00 to 99. The K scripts are run first in
+numerical order, followed by the S
+scripts in numerical order.

+
+

+How do I find the current/previous runlevel?
+-----

+
+This has not changed, use the "runlevel" command. See runlevel(8).

+
+

+How do I change the runlevel?
+-----

+
+This has not changed, use the "telinit" command or just invoke "init"
+directly. See telinit(8).

+
+

+How do I change the default runlevel?
+-----

+
+If you have an /etc/inittab file, edit it. Locate the following line:

+
+ id:N:initdefault:

+
+Where N is the default runlevel, change this to match.

+
+Most people won't have that file, you can edit /etc/init/rc-sysinit.conf
+and change the following line:

+
+ env DEFAULT_RUNLEVEL=2

+
+

+How do I shutdown the machine?
+-----

+
+This has not changed, use the "shutdown" command provided by the
+upstart package; you may also use the "reboot"/"halt"/"poweroff"
+commands as a short-cut. See shutdown(8) and reboot(8).

+

+You
can also press Control-Alt-Delete on a console to reboot the
+machine.

+

+

+How do I change the behaviour of Control-Alt-Delete?
+-----

+

+Edit the /etc/init/control-alt-delete.conf file, the line beginning
+"exec" is what upstart will run when this key combination is pressed.

+

+To not do anything, you can simply delete this file.

+

+

+How do I enter single-user mode?
+-----

+

+This hasn't changed, choose the "(recovery mode)" option from GRUB;
+add "-s", "S" or "single" to the kernel command-line; or from a
+running machine, run "telinit 1" or "shutdown now".

+

+

+How do I reduce the number of gettys?
+-----

+

+Also see "How do I change which runlevels gettys are run in?"

+

+In /etc/init there is a file named ttyN.conf for each getty that will be
+started, where N is numbered 1 to 6. Remove any that you do not
+want.

+

+This will not take immediate effect, however you can
run "stop ttyN"
+to stop one that is running.

+

+

+How do I change getty parameters?
+-----

+

+In /etc/init there is a file named ttyN.conf for each getty that will be
+started, where N is numbered 1 to 6. Edit these files, the line
+beginning "respawn" is what upstart will run.

+

+This will not take immediate effect, run "stop ttyN" followed by
+"start ttyN" or just kill the running getty to respawn with the new
+parameters.

+

+

+How do I change which runlevels gettys are run in?

+-----

+

+In /etc/init there is a file named ttyN.conf for each getty that will be started, where N is numbered 1 to 6. Edit these files, there are two lines:

+

+ start on runlevel [2345]

+ stop on runlevel [!2345]

+

+Change the set of runlevels to match your taste.

+

+This will not take immediate effect, however you can run "stop ttyN" to stop one that is running or "start ttyN" to start one that isn't.

+

+

+How do I increase the number of gettys?

+-----

+

+In /etc/init there is a file named ttyN.conf for each getty that will be started, where N is numbered 1 to 6.

+

+Copy one of these files to a new name, we suggest you simply name it after the tty, e.g. "ttyS0".

+

+Edit that file, change the "respawn" line to match your requirements; in particular you'll need to change the tty the getty should be run on.

+

+This will not take immediate effect, however you can run "start ttyN" to start the getty.

+

+

+How do I add a serial console?

+-----

+

+See "How do I increase the number of gettys?"

+

+

+How can I see boot messages on the console?

+-----

+

+This is nothing to do with upstart, but I'll answer this anyway.

+Remove "quiet" from the kernel command-line.

+

+To make this permanent, edit /boot/grub/menu.lst and edit the line


```

+that begins "# defoptions=" (yes, it looks like a comment).
+
+This will change both
+usplash and the LSB init logging.
+
+
+Upstart isn't working, how do I debug it?
+-----
+
+Add "--debug" to the kernel command-line, and be sure to remove "quiet"
+and "splash". You'll now see debugging messages as upstart works.
+
+
+Can I query upstart for a list of jobs?
+-----
+
+Yes, "initctl list" will list the known jobs and their status.
+
+
+How do I manually start or stop a job?
+-----
+
+Use "start JOB" or "stop JOB".
+
+
+How do I find the status of a job?
+-----
+
+Use "status JOB".
+
+
+Can I emit an event by hand?
+-----
+
+Yes, "initctl emit EVENT" will emit the named event and cause any
+jobs waiting for it to be started or stopped as appropriate.
--- upstart-1.13.2.orig/debian/changelog
+++ upstart-1.13.2/debian/changelog
@@ -0,0 +1,2152 @@
+upstart (1.13.2-0ubuntu13) vivid; urgency=medium
+
+ * remove running-in-container
+ - it is moved to init-system-helpers and
+  made to work also with systemd. (LP: #1442228)
+
+ -- Serge Hallyn <serge.hallyn@ubuntu.com> Thu, 09 Apr 2015 18:40:12 -0500
+
+upstart (1.13.2-0ubuntu12) vivid; urgency=medium

```

```

+
+ * debian/xsession.d/99upstart:
+   Don't assume that /sbin is in $PATH when calling upstart
+   (LP: #1435492).
+
+ -- Gunnar Hjalmarsson <gunnarhj@ubuntu.com> Fri, 03 Apr 2015 14:48:00 +0100
+
+upstart (1.13.2-0ubuntu11) vivid; urgency=medium
+
+ * Remove /lib/init/apparmor-profile-load, as it is being moved to the
+   init-system-helpers package. Add new dependency on init-system-helpers
+   to transition all current systems. (LP: #1432683)
+
+ -- Serge Hallyn <serge.hallyn@ubuntu.com> Thu, 02 Apr 2015 11:21:23 -0500
+
+upstart (1.13.2-0ubuntu10) vivid; urgency=medium
+
+ * Add upstart-sysv to mirror systemd-sysv behavior if upstart is chosen
+   as the default init daemon: (LP: #1422681)
+   - this fixes upstart not starting only with upstart-bin
+     binary due to
+     missing jobs.
+   - upstart now contains upstart-bin binaries.
+   - upstart-bin is a transitional package. Can be deleted in vivid+1.
+   - removed some deprecated transition path for both debian and ubuntu.
+   - ensure grub is updated when upstart-sysv is installed.
+   - always get alternatives init and right default grub entries.
+
+ -- Didier Roche <didrocks@ubuntu.com> Mon, 23 Mar 2015 09:51:12 +0100
+
+upstart (1.13.2-0ubuntu9) vivid; urgency=medium
+
+ * debian/upstart-bin.upstart.cron.daily: Ensure the session uid matches that
+   of the session file itself to stop a user forcing the logrotation of
+   another users logs.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 26 Feb 2015 14:35:41 +0000
+
+upstart (1.13.2-0ubuntu8) vivid; urgency=medium
+
+ * debian/upstart-bin.upstart.cron.daily:
+   - [SECURITY FIX]: Only consider valid session files to avoid possible
+     privilege escalation. Thanks to halfdog for reporting (LP: #1425685).
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 26 Feb 2015 12:34:30 +0000
+
+upstart (1.13.2-0ubuntu7) vivid; urgency=medium

```

+
 + * Correct upstart-udev-bridge session job start/stop on conditions.
 +
 + -- Dimitri John Ledkov <dimitri.j.ledkov@linux.intel.com> Tue, 20 Jan 2015 10:54:54 +0000
 +
 +upstart (1.13.2-0ubuntu6) vivid; urgency=medium
 +
 + * debian/upstart-bin.upstart.cron.daily: Emit "rotate-logs" event direct
 + into session init, by-passing system upstart & session
 + event-bridge. This way session logs will be rotated, even upstart is
 + not system init.
 + * debian/control: make upstart-monitor & upstart-dconf-bridge be
 + installable with just session init, upstart-bin.
 + * extra/upstart-local-bridge: implement systemd pid1 logic.
 + * extra/upstart-event-bridge: make it re-emit upstart-local-bridge
 + events direct.
 + * util/telinit: Revert to synchronous behaviour coupled with unavoidable
 + poll to ensure telinit only returns once a re-exec has completed
 (LP:
 + #901038).
 + * move udev & local bridges to upstart-bin package.
 +
 + -- Dimitri John Ledkov <dimitri.j.ledkov@linux.intel.com> Sat, 17 Jan 2015 01:59:42 +0000
 +
 +upstart (1.13.2-0ubuntu5) vivid; urgency=medium
 +
 + * debian/xsession.d/99upstart: Add support for GNOME Flashback
 + session scripts.
 +
 + -- Dmitry Shachnev <mitya57@ubuntu.com> Sat, 29 Nov 2014 14:39:07 +0300
 +
 +upstart (1.13.2-0ubuntu4) vivid; urgency=medium
 +
 + * Fix Breaks/Replaces: operator. *brown paperbag*
 +
 + -- Martin Pitt <martin.pitt@ubuntu.com> Thu, 20 Nov 2014 07:57:50 +0100
 +
 +upstart (1.13.2-0ubuntu3) vivid; urgency=medium
 +
 + [James Hunt]
 + * debian/user-conf/logrotate.conf: Handle corrupt status files.
 + * init/tests/test_conf_preload.sh.in: Use build-generated libtool to
 + avoid breaking test_conf_preload.sh when the packaged binary moves
 + between packages.
 + * init/Makefile.am: Pass top_builddir to test_conf_preload.sh.in.
 +
 + [Dmitry Shachnev]
 + * debian/upstart-xsessions:

Update for new GNOME Flashback session

- + names (LP: #1383382).
- +
- + [Martin Pitt]
- + * Move apparmor-profile-load to upstart-bin. Otherwise, if you try to
- + install e. g. avahi-daemon and systemd-sysv in one go under upstart (as in
- + systemd's autopkgtest), avahi-daemon will fail.
- +
- + -- Martin Pitt <martin.pitt@ubuntu.com> Wed, 19 Nov 2014 14:48:48 +0100
- +
- +upstart (1.13.2-0ubuntu2) utopic; urgency=medium
- +
- + * debian/upstart-bin.upstart.cron.daily: Redirect stdout to /dev/null as
- + well, to avoid a daily cron mail with the upstart version.
- +
- + -- Martin Pitt <martin.pitt@ubuntu.com> Tue, 30 Sep 2014 07:11:16 +0200
- +
- +upstart (1.13.2-0ubuntu1) utopic; urgency=medium
- +
- + * New upstream release.
- +
- + -- James Hunt <james.hunt@ubuntu.com> Thu, 04 Sep 2014 12:32:07 +0100
- +
- +upstart (1.13.1-0ubuntu4) utopic; urgency=medium
- +
- + * debian/upstart-bin.upstart.cron.daily: Only run if upstart is actually
- + active.
- +
- + -- Martin Pitt <martin.pitt@ubuntu.com> Thu, 28 Aug
- 2014 06:24:03 +0200
- +
- +upstart (1.13.1-0ubuntu3) utopic; urgency=medium
- +
- + * Split upstart package into upstart & upstart-bin. (LP: #1351306)
- +
- + -- Dimitri John Ledkov <xnox@ubuntu.com> Wed, 06 Aug 2014 13:07:24 +0100
- +
- +upstart (1.13.1-0ubuntu2) utopic; urgency=medium
- +
- + * Cherry-pick cgmanager text fix from upstream.
- +
- + -- James Hunt <james.hunt@ubuntu.com> Mon, 28 Jul 2014 11:22:39 +0100
- +
- +upstart (1.13.1-0ubuntu1) utopic; urgency=medium
- +
- + * New upstream release.
- +
- + -- James Hunt <james.hunt@ubuntu.com> Thu, 17 Jul 2014 15:23:18 +0100

```

+
+upstart (1.13-0ubuntu1) utopic; urgency=medium
+
+ * New upstream release.
+ * Cherry-pick arm64 test_job_process unit test fix.
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Mon, 14 Jul 2014 13:57:32 +0100
+
+upstart (1.12.1-0ubuntu11) utopic; urgency=medium
+
+ * Do not fail xsession-init pre-start, if SESSIONTYPE is unset, or
+   setting deprecated gnome-session variable fails for any reason.
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com>
+   Fri, 20 Jun 2014 19:07:03 +0100
+
+upstart (1.12.1-0ubuntu10) utopic; urgency=medium
+
+ * Revert spurious +x -> -x change on daily upstart cron file.
+ * Cherrypick reboot command fix to not process REBOOTCOMMAND argument
+   when in runlevels 2-5 and without using force flag. (LP: #1174272)
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Fri, 20 Jun 2014 12:09:51 +0100
+
+upstart (1.12.1-0ubuntu9) utopic; urgency=medium
+
+ [ Dimitri John Ledkov ]
+ * Add libcgmanager-dev build-dependency.
+
+ [ Iain Lane ]
+ * xsession-init: Set $GNOME_DESKTOP_SESSION_ID if we are launching a
+   gnome-session session. Some applications (Qt4) require this to be set to
+   any value to detect the environment in use. It was historically set by
+   gnome-session but now this is no longer the root of the session so not all
+   user processes are guaranteed to have it. (LP: #1305294)
+
+ -- Dimitri John Ledkov <xnox@ubuntu.com> Fri, 20 Jun 2014 11:13:27 +0100
+
+upstart (1.12.1-0ubuntu8)
+   utopic; urgency=medium
+
+ * Drop the 01-upstart-lsb hook as it's now part of lsb.
+
+ -- Stéphane Graber <stgraber@ubuntu.com> Tue, 27 May 2014 16:15:03 +0200
+
+upstart (1.12.1-0ubuntu7) utopic; urgency=medium
+
+ * debian/upstart-xsessions: Run unity8-x11 and unity8-mir sessions in a user

```

+ session.

+

+ -- Iain Lane <iain.lane@canonical.com> Fri, 16 May 2014 18:13:14 +0100

+

+upstart (1.12.1-0ubuntu6) utopic; urgency=medium

+

+ * Map force-reload to restart command in init-functions hook.

+ * Use variable expansion, instead of basename as that is shipped in

+ /usr.

+ * Resolve test-failure, when dbus user session job is launched

+ accidentally by unit-tests. (LP: #1315767)

+

+ -- Dimitri John Ledkov <xnox@ubuntu.com> Wed, 07 May 2014 20:15:35 +0100

+

+upstart (1.12.1-0ubuntu5) utopic; urgency=medium

+

+ [James Hunt]

+ * debian/manpages/upstart-events.7: Correction for 'rotate-logs'.

+ * debian/upstart.cron.daily: Specify full path to initctl.

+ * init/man/init.8:

+ Add missing information on '--chroot-sessions'.

+ * debian/upstart.apport: Sort system and session jobs.

+

+ [Dimitri John Ledkov]

+ * Add lsb initfunctions hook, to transparently execute the upstart job

+ instead of the init.d script, when both are provided. For example this

+ means that e.g. mysql, ssh and other daemons can be operated by

+ invoking init.d script directly in addition to using invoke-rc.d,

+ update-rc.d, service and initctl commands. (Closes: #712763) (LP:

+ #1273462)

+

+ -- Dimitri John Ledkov <xnox@ubuntu.com> Sat, 03 May 2014 04:41:23 +0100

+

+upstart (1.12.1-0ubuntu4) trusty; urgency=medium

+

+ [Adam Conrad]

+ * Disable chroot sessions by default, add an option to enable chroot

+ sessions. (LP: #1277594)

+

+ -- Dimitri John Ledkov <xnox@ubuntu.com> Fri, 11 Apr 2014 22:31:21 +0100

+

+upstart (1.12.1-0ubuntu3) trusty; urgency=medium

+

+ [Steve Langasek]

+ * Rotate user logs daily, not hourly; while we do need them rotated

+ more

+ often than once per login in the case of long-lived sessions, once per

+ hour is far too frequent and will cause log data to be rotated off far

+ too quickly.

+

+ [Dimitri John Ledkov]

+ * Clean-up stale child processes in the new initctl reload test case,

+ thus resolving hanging buildds.

+

+ -- Dimitri John Ledkov <xnox@ubuntu.com> Fri, 11 Apr 2014 20:18:50 +0100

+

+upstart (1.12.1-0ubuntu2) trusty; urgency=medium

+

+ [Steve Langasek]

+ * debian/conf/wait-for-state.conf: suppress stderr from 'grep -q

+ /etc/init/foo.override', since the file may not exist. LP: #1298938.

+

+ [James Hunt] (LP: #1306361)

+ * debian/upstart.cron.hourly: hourly cron job to emit the 'rotate-logs'

+ event.

+ * debian/user-conf/logrotate.conf: Run 1 minute after session startup

+ and whenever the 'rotate-logs' event is emitted.

+ * debian/manpages/upstart-events.7: Add 'rotate-logs' event.

+

+ [Dimitri John Ledkov]

+ * Reintroduce previous way of reloading jobs,

+ such that "initctl reload"

+ is now backwards compatible with precise upstart (still) running as

+ pid 1 during upgrades. (LP: #1303891)

+ * Add a shebang to debian/upstart.cron.hourly

+

+ -- Dimitri John Ledkov <xnox@ubuntu.com> Fri, 11 Apr 2014 05:43:53 +0100

+

+upstart (1.12.1-0ubuntu1) trusty; urgency=medium

+

+ [Dimitri John Ledkov]

+ * Adjust wait-for-state job to also check .override for "manual" flag.

+

+ [James Hunt]

+ * New upstream release.

+

+ -- James Hunt <james.hunt@ubuntu.com> Tue, 11 Mar 2014 16:11:37 +0000

+

+upstart (1.11-0ubuntu5) trusty; urgency=medium

+

+ * Do not require a specific python3 version.

+

+ -- Matthias Klose <doko@ubuntu.com> Thu, 20 Feb 2014 11:54:22 +0100

+

+upstart (1.11-0ubuntu4) trusty; urgency=medium

+

+ * No-change rebuild for Python 3.4.

+

+ -- Matthias Klose <doko@ubuntu.com> Wed, 19 Feb 2014 20:31:46 +0100

+

+upstart (1.11-0ubuntu3) trusty; urgency=medium

+

+ * If present, wait for plymouth to come up in shut-down mode
before

+ changing runlevel at shutdown. (LP: #967229)

+

+ -- Dimitri John Ledkov <xnox@ubuntu.com> Tue, 04 Feb 2014 15:01:47 +0000

+

+upstart (1.11-0ubuntu2) trusty; urgency=low

+

+ [Steve Langasek]

+ * Merge Debian packaging changes from 1.10-2.

+

+ [James Hunt]

+ * debian/manpages/upstart-events.7: Remove Job States and Job Lifecycle
sections since they have been added to init.8 upstream (closes: bug#732125).

+ * debian/manpages/upstart-events.7:

+ - Added missing dbus and dconf events.

+ - Added all inline events to SEE ALSO section for quick reference.
(when coupled with latest upstream doc changes, closes: bug#732128).

+ * debian/control: add Build-Depends on libtool for test_conf_preload.sh.

+ * Cherry-pick fix for handling re-exec if job is invalid (LP: #1269731).

+

+ -- James Hunt <james.hunt@ubuntu.com> Tue, 21 Jan 2014 11:50:09 +0000

+

+upstart (1.10-2) unstable; urgency=low

+

+ * init/tests/test_state.c: fix test case to not assume SIGUSR1
== 10;

+ the numeric value may vary between platforms, what we actually care
about is making sure that the deserialization output matches what was in
the json - so check the numeric value, NOT the symbolic signal name.

+ LP: #1254326.

+ * init/tests/test_log.c: don't assume the root filesystem is not writable.
If we want to make sure log data stays in the buffer instead of being
flushed to disk, create a log file that we control and know can't be
written to.

+

+ -- Steve Langasek <vorlon@debian.org> Sat, 23 Nov 2013 22:17:35 +0000

+

+upstart (1.10-1) unstable; urgency=low

+

+ * New upstream release.

+ - fixes racy test utmp test case. Closes: #722572.

- + - drop changes to init/job_class.[ch] process priority handling in favor of upstream version.
- + * Pull in Ubuntu packaging changes:
- + - add INIT_VERBOSE to rc*.conf, overlooked in the previous merge.
- + - call dh-autoreconf, adding build-depends on dh-autoreconf and autopoint.
- +
 - update debian/copyright.
- + - add upstart-monitor package.
- + - migrate to python3.
- + - use "serial-tests" harness during build, instead of automake1.13's default "parallel-tests" harness; and build-depend on automake (>= 1.12) for this interface.
- + - Enable parallel build.
- + - Enable initial autopkgtests, just doing a package build and rerunning the test suite.
- + - Add upstart-dconf-bridge package.
- + - Silence running-in-container when called from apparmor-profile-load.
- + - Hard-code a dependency on libjson0 (>= 0.10-1.2), the first version of the package that installs to /lib instead of /usr/lib.
- + - Add postinst to handle stateful reexec on upgrade, and depend on debianutils for ischroot(1).
- + - Add libupstart1 and libupstart1-dev packages.
- + - debian/manpages/upstart-events.7: Update for Session Init events.
- + - use verbose build (disable silent rules) by default.
- + - disable upstream build-time abi check.
- +
 - don't install upstart-event-bridge or upstart-dconf bridge jobs.
- + - install an apport hook.
- + - debian/source/options: Ignore gmo files we rebuild anyway.
- + - include changes to debian/upstart-job, which in practice should never be used in Debian.
- + - init/apparmor.c: do not load apparmor if running in a container or a live cd.
- + - init/job_process.c: don't fail if the security profile failed to load.
- + - drop no longer used util/tests/test_user_sessions.sh.
- + * For now, do not pull in packaging changes to include upstart user sessions.
- + * Reorder the postinst to avoid calling initctl from a chroot on upgrade, as this has side-effects of triggering upstart chroot sessions.
- + * Lose the unnecessary postinst boilerplate.
- + * init/tests/test_job_process.c: adjust test case to not key on the text of error messages which will vary depending on whether /bin/sh is dash or bash; and use TEST_STR_MATCH so that in the event of future failures, we know why it's failing.
- + * Drop the hard-coded dep on sysv-rc; we already depend on initscripts which depends on sysv-rc | file-rc, and file-rc now has upstart support, so we don't need to force users to choose between upstart and file-rc.

+ Closes: #709483.

+

+ -- Steve Langasek <vorlon@debian.org> Thu, 21 Nov 2013 21:43:26 +0000

+

+upstart (1.11-0ubuntu1) trusty; urgency=low

+

+ [Dmitrijs Ledkovs]

+ * Run as much test-suites as possible, before exiting with failure.

+

+ [James Hunt]

+ * New upstream release.

+ - the global environment is now serialized on re-exec. LP: #1238078.

+ - fixes support for upstart-file-bridge detecting directory creation.

+ LP: #1221466.

+ - Fixes upstart user session to not override the user's configured

+ umask. LP: #1240686.

+ - Makes the session init available on the session dbus.

+ LP: #1203595, #1235649.

+

+ [Steve Langasek]

+ * Document the authoritative Vcs branch in debian/control.

+

+ * Update Standards-Version to 3.9.5, no changes required.

+

+ -- James Hunt <james.hunt@ubuntu.com> Fri, 15 Nov 2013 13:16:56 +0000

+

+upstart (1.10-0ubuntu9) trusty; urgency=low

+

+ [Dmitrijs Ledkovs]

+ * If check target fails, cat test-suite log files to standard output

+ such that they are saved as part of build-log.

+

+ [Jonathan Davies]

+ * debian/rules: Set --enable-selinux in configure flags.

+ * debian/control: Set build-dependency on libselinux1-dev.

+

+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 06 Nov 2013 22:15:18 -0800

+

+upstart (1.10-0ubuntu8) trusty; urgency=low

+

+ * debian/upstart.apport:

+ - Handle 'RecoverableProblem' and 'Hang' problem types (LP: #1238058).

+ - Cleanup now that lp bug 1154536 is fixed.

+

+ [Steve Langasek]

+ * Build-Depend on python3:any for cross-build support.

+

+ [Dmitrijs Ledkovs]

+ * Remove uevent blacklist now that udevd was fixed not to spam on
+ maguro.
+
+ [Steve Langasek]
+ * extra/upstart-socket-bridge.c:
Cherry-pick fix from upstream for
+ upstart-socket-bridge to also not clobber PATH, using SOCKET_PATH
+ instead. LP: #1235480.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 23 Oct 2013 23:59:20 -0700
+
+upstart (1.10-0ubuntu7) saucy; urgency=low
+
+ * Ignore emitting specific udev event spam on maguro, as a workaround
+ for LP: #1235649.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Wed, 09 Oct 2013 13:52:10 +0100
+
+upstart (1.10-0ubuntu6) saucy; urgency=low
+
+ * extra/upstart-local-bridge.c: use SOCKET_PATH in our event
+ environment, instead of clobbering PATH. (LP: #1235480)
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Fri, 04 Oct 2013 14:45:40 -0700
+
+upstart (1.10-0ubuntu5) saucy; urgency=low
+
+ * extra/conf/upstart-file-bridge.conf: fix the start condition to
+ comply with the intent, that we start the file bridge only once
+ the filesystem is up. (LP: #1235387)
+
+ -- Steve Langasek <steve.langasek@ubuntu.com>
Fri, 04 Oct 2013 11:35:18 -0700
+
+upstart (1.10-0ubuntu4) saucy; urgency=low
+
+ [James Hunt]
+ * upstart-local-bridge: allow input to be set of pairs (LP: #1234898)
+
+ [Dmitrijs Ledkovs]
+ * upstart-file-bridge: start session bridge on started dbus. (LP:
+ #1234841)
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Fri, 04 Oct 2013 15:25:21 +0100
+
+upstart (1.10-0ubuntu3) saucy; urgency=low
+
+ * Cherry-pick upstream fix for test failure (LP: #1089159).

```

+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 03 Oct 2013 13:25:23 +0100
+
+upstart (1.10-0ubuntu2) saucy; urgency=low
+
+ [ James Hunt ]
+ * debian/upstart.apport: Check session state file set before attempting
+   to add an apport tag.
+ * debian/user-conf/logrotate.conf: Move sleep from pre-start to main stanza
+   to ensure session shutdown is fast even in the case where it is triggered
+   soon after login.
+ * Optimise and speed-up session logout (LP: #1227212)
+
+ [ Steve Langasek ]
+ * Use ${libdir}
+   instead of including /usr/share/dpkg/architecture.mk.
+ * Drop manual symlinking of manpages, the upstream rules do this fine
+   for us already.
+
+ -- James Hunt <james.hunt@ubuntu.com> Tue, 01 Oct 2013 14:10:25 +0100
+
+upstart (1.10-0ubuntu1) saucy; urgency=low
+
+ * New upstream release (LP: #1199778, #1200264, #1201865).
+ * debian/user-conf/{re-exec,upstart-file-bridge}.conf: Removed as now
+   supplied by upstream.
+ * debian/upstart.install: Use all upstream-provided session config files.
+ * debian/control: Add upstart-dconf-bridge package.
+ * debian/rules: Remove files from upstart package that now live in the
+   upstart-dconf-bridge package.
+ * debian/upstart-dconf-bridge.install: New.
+ * debian/upstart-dconf-bridge.manpages: New.
+
+ -- James Hunt <james.hunt@ubuntu.com> Mon, 09 Sep 2013 10:22:18 +0100
+
+upstart (1.9.1-0ubuntu5) saucy; urgency=low
+
+ * Turn on Upstart user sessions for all the Ubuntu flavours.
+
+ -- Stéphane Graber <stgraber@ubuntu.com>
+   Tue, 27 Aug 2013 10:25:22 -0400
+
+upstart (1.9.1-0ubuntu4) saucy; urgency=low
+
+ [ Dmitrijs Ledkovs ]
+ * Bump upstart-dbus-bridge conf file removal to 1.9.1-0ubuntu4. (LP: #1203323)
+
+ [ James Hunt ]

```

```

+ * debian/upstart.apport: Check to ensure that the sessions array contains
+   at least one element.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Fri, 23 Aug 2013 11:43:40 +0100
+
+upstart (1.9.1-0ubuntu3) saucy; urgency=low
+
+ * Fix stateful re-exec with multiple stale chroot sessions (LP: #1199778)
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Sat, 20 Jul 2013 00:17:07 +0100
+
+upstart (1.9.1-0ubuntu2) saucy; urgency=low
+
+ [ Dmitrijs Ledkovs ]
+ * Upload to saucy.
+
+ [ James Hunt ]
+ * Fix stateful re-exec with active chroot sessions (LP: #1199778)
+
+ [ Colin Watson ]
+ * Alternatively try new and old pkg-config names for json-c library.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Thu, 18 Jul 2013 10:56:31 +0100
+
+upstart (1.9.1-0ubuntu1)
+ saucy; urgency=low
+
+ [ James Hunt ]
+ * debian/upstart.apport:
+   - Added session count to report ('UpstartRunningSessionCount').
+   - Join Upstart session to ensure 'UpstartRunningSessionJobs' shows
+     session jobs and doesn't default to showing system ones.
+ * debian/copyright: Update year.
+ * New upstream release.
+ * debian/{control,libupstart*}: Add libupstart packaging.
+ * debian/rules:
+   - Delete upstart-dbus-bridge.conf to avoid running it at the system level.
+   - Install libupstart.pc to correct multi-arch location.
+ * debian/upstart.postinst: Handle safe removal of
+   upstart-dbus-bridge.conf (which is not used at the system level).
+ * debian/control: Add build-depends on automake >= 1.12 for serial-tests
+   in configure.ac (LP: #1197529).
+ * debian/libupstart-dev.install: Specify wildcarded path (for multi-arch).
+
+ [ Dmitrijs Ledkovs ]
+ * Correct libupstart1.symbols, whilst soname is at 1.0.0, all of them
+   first appeared in

```

1.9.1 upstream version.

- + * Use dpkg-maintscript-helper to remove obsolete conffiles.
- +
- + -- James Hunt <james.hunt@ubuntu.com> Mon, 08 Jul 2013 14:04:28 +0100
- +
- +upstart (1.9-0ubuntu2) saucy; urgency=low
- +
- + * Cherry-pick upstream fix for crashing bridges (LP: #1197225)
- +
- + -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Wed, 03 Jul 2013 09:37:35 +0100
- +
- +upstart (1.9-0ubuntu1) saucy; urgency=low
- +
- + [Dmitrijs Ledkovs]
- + * Use dh_auto_build to run the testsuite, as dh_auto_test stopped
- + finding autotools test suite.
- + * Correct typo in upstart postinst (LP: #1195955)
- +
- + [James Hunt]
- + * New upstream release.
- + * init/tests/test_conf.c: Remove duplicate define.
- +
- + [Stéphane Graber]
- + * Cherry-pick r1498 from upstream upstart to fix incorrect respawn handling
- + for jobs that have shell characters in their expanded command line.
- + (LP: 1181789)
- +
- + [Marc Deslauriers]
- + * Added some distro-specific changes:
- + - init/apparmor.c: do not load apparmor if
- + running in a container or a
- + live cd.
- + - init/job_process.c: don't fail if the security profile failed to load
- + to emulate current behaviour on Ubuntu.
- +
- + -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Tue, 02 Jul 2013 20:14:51 +0100
- +
- +upstart (1.8-0ubuntu7) saucy; urgency=low
- +
- + * Simplify postinst re-exec logic by removing runlevel checks. Now the
- + logic is:
- + - re-exec if lossless stateful re-exec is available
- + - perform partial stateful re-exec, unless running under upstart
- + - re-exec if upgrading from pre dbus capable upstart
- + - do nothing if running from chroot
- + - otherwise hint that init is upgraded
- +
- + -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Mon, 17 Jun 2013 14:17:58 +0100

```

+
+upstart (1.8-0ubuntu6) saucy; urgency=low
+
+ * debian/upstart.postinst:
+   - When only partial stateful re-exec is available, and upgrade is run by
+     cloud-config simply leave init upgraded.
+   - When partial stateful re-exec is not performed
+     also leave reboot required marker.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Thu, 13 Jun 2013 14:36:17 +0100
+
+upstart (1.8-0ubuntu5) saucy; urgency=low
+
+ * Change upstart's version string, such that postinst can detect whether
+   the running upstart instance has full serialization fixes.
+ * In postinst, check running upstart for the above version number or 1.9
+   or better and then perform lossless stateful re-execution. Other wise
+   check for runlevels 2-5 and perform partial stateful re-execution.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Tue, 11 Jun 2013 10:51:53 +0100
+
+upstart (1.8-0ubuntu4) saucy; urgency=low
+
+ [ James Hunt ]
+ * Cherry pick lp:~jamesodhunt/upstart/serialise-remaining-objects (LP:#1124384):
+   - Preserve event blockers during configuration reload.
+   - Serialise & deserialise blocking events during stateful
+     re-execution.
+ * debian/manpages/upstart-events.7: Added 'sys:restarted'.
+ * debian/upstart.postinst:
+   Don't re-exec if runlevel is not 2
+   yet (to allow cloud-init to dist-upgrade upstart safely in early boot).
+
+ [ Dmitrijs Ledkovs ]
+ * Upload to saucy.
+ * Use "serial-tests" harness during build, instead of the automake's
+   1.13 default "parallel-tests" harness.
+ * Enable parallel build by default.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Thu, 06 Jun 2013 16:15:09 +0100
+
+upstart (1.8-0ubuntu3) saucy; urgency=low
+
+ * Update the Xsession.d scripts to be a bit more generic and work with
+   lxsession as well as gnome-session.
+
+ -- Stéphane Graber <stgraber@ubuntu.com> Fri, 31 May 2013 17:13:15 -0400
+

```

```

+upstart (1.8-0ubuntu2) saucy; urgency=low
+
+ [ James Hunt ]
+ * debian/manpages/upstart-events.7: Added 'sys:restarted'.
+
+ [ Stéphane Graber ]
+ * Turn on user sessions by default for the 'ubuntu' xsession.
+ * Manually add scripts/man/upstart-monitor.8 as it was missing from the
+   upstream 1.8 tarball.
+
+ -- Stéphane Graber <stgraber@ubuntu.com>
+   Fri, 03 May 2013 09:55:36 -0700
+
+upstart (1.8-0ubuntu1) raring; urgency=low
+
+ [ James Hunt ]
+ * debian/manpages/upstart-events.7: Update for Session Init events
+   and file bridge.
+ * debian/rules: Install apport hook.
+ * debian/upstart.apport: Addition of apport hook to handle PID 1 and
+   Session Init bugs.
+ * debian/upstart.dirs: Remove invalid leading slash and add apport
+   directory.
+ * Cherry-pick man page related fixes from upstream.
+ * debian/control: Create a separate upstart-monitor package and make
+   upstart suggest it.
+ * debian/rules:
+   - Add python3 and associated graphical packages.
+   - Handle man pages.
+ * debian/upstart.install: Add in files not now copied by default
+   now we have a separate upstart-monitor package. Note that initctl2dot
+   and init-checkconf are now correctly installed to /usr/bin rather
+   than /bin.
+ * debian/upstart-monitor.install: New file.
+ * debian/upstart-monitor.manpages: New file.
+
+   * debian/upstart.links: New file.
+ * debian/user-conf/upstart-file-bridge.conf: Required as start condition
+   different to system job of same name.
+
+ [ Iain Lane ]
+ * Set $SESSIONTYPE when emitting the xsession event that specifies the type
+   of session being launched. Currently only gnome-session is supported.
+
+ -- James Hunt <james.hunt@ubuntu.com> Tue, 26 Mar 2013 17:13:12 +0000
+
+upstart (1.7-0ubuntu1b1) raring; urgency=low
+

```



```

+ * No-change rebuild against libudev1
+
+ -- Martin Pitt <martin.pitt@ubuntu.com> Wed, 13 Mar 2013 07:02:18 +0000
+
+upstart (1.7-0ubuntu1) raring; urgency=low
+
+ [ Stéphane Graber ]
+ * New upstream release
+ * Install Xsession hooks and initial set of user jobs. Those will only be
+   used if the user explicitly whitelist the session in /etc/upstart-xsessions
+
+ [ James Hunt ]
+ * Remove user_sessions DEP-8 test since User Jobs are no longer
+   supported and replace with a dummy test that just forces the
+   tests to run.
+
+
+ -- Stéphane Graber <stgraber@ubuntu.com> Thu, 07 Mar 2013 16:16:13 -0500
+
+upstart (1.6.1-1ubuntu3) raring; urgency=low
+
+ * Use verbose build (disable silent rules) by default.
+ * Cherry-pick r1436 to support passing reboot command.
+
+ -- Dmitrijs Ledkovs <dmitrij.ledkov@ubuntu.com> Mon, 25 Feb 2013 15:42:00 +0000
+
+upstart (1.6.1-1ubuntu2) raring; urgency=low
+
+ [ Stéphane Graber ]
+ * Call autoreconf so we can use the same packaging for snapshots as for
+   release tarballs. Add depends on dh-autoreconf and autopoint.
+
+ [ James Hunt ]
+ * init/log.c: Cherry-pick of upstream fix for jobs which end before
+   the log disk becomes writeable and which spawn off additional
+   processes which persist after the main job process has ended
+   (LP: #1096531).
+
+ -- James Hunt <james.hunt@ubuntu.com> Tue, 22 Jan 2013 15:18:30 +0000
+
+upstart (1.6.1-1ubuntu1) raring; urgency=low
+
+ [ Steve Langasek ]
+ * New upstream release.
+ * Merge with Debian.
+ - drop debian/conf/dbus-reconnect.conf
+   again, only needed in Debian.
+ - don't build against libselinux; this is probably fine to have in

```

- + Ubuntu, but this isn't the time to add it.
- + - back down the Debian-specific versioned depends on sysvinit, ifupdown,
- + udev
- + * Export \$TERM in init/Makefile.am; the Debian builddds don't set this,
- + which results in test failures because of assumptions that it will be
- + available.
- + * Hard-code a dependency on libjson0 (>= 0.10-1.1ubuntu1), the first
- + version of the package that installs to /lib instead of /usr/lib.
- +
- + [James Hunt]
- + * debian/upstart-job: Allow script to operate quietly by reading optional
- + /etc/default/upstart-job configuration. Thanks to Jouko Orava
- + (LP: #613231)
- + * debian/control: Added debianutils for ischroot(1).
- + * debian/upstart.postinst: Enabled stateful re-exec handling in selected
- + upgrade scenarios. Details:
- + - Only query running version if initctl is known to work.
- + - Discard
- + initctl stderr just in case.
- + - Do not re-exec if running in a chroot (uses ischroot(1)).
- + - Removed redundant check on previously installed version.
- + - Updated lengthy commentary.
- +
- + [Stéphane Graber]
- + * debian/apparmor-profile-load: Ignore output from running-in-container.
- + This prevents the output of running-in-container from being appended to
- + rsyslog's upstart log (and any other job calling apparmor-profile-load).
- +
- + [Dmitrijs Ledkovs, James Hunt]
- + * Add DEP-8 autopkgtests.
- +
- + -- Steve Langasek <steve.langasek@ubuntu.com> Thu, 15 Nov 2012 09:26:10 -0800
- +
- +upstart (1.6.1-1) unstable; urgency=low
- +
- + * New upstream release.
- + * Declare a Breaks: against old versions of cryptsetup which have upstart
- + jobs named in a way that will deadlock the boot. (Ref: bug #694499)
- + * Make versioned build-dep on json-c (>= 0.10) explicit.
- + * Add debian/conf/dbus-reconnect.conf, to tell upstart to connect to the
- + system bus once dbus is started.
- + This is a temporary solution until
- + dbus in Debian has native upstart support.
- +
- + -- Steve Langasek <vorlon@debian.org> Mon, 10 Dec 2012 00:28:29 -0800
- +
- +upstart (1.6-3) unstable; urgency=low
- +

+ * init/tests/test_job_process.c: don't test the blocked/ignored signal list
+ in a spawned job; this is not testing the upstart code but the
+ characteristics of the system, and the test is wrong because it assumes
+ the signal lists in /proc/self/status fit in an unsigned long int
+ - patently untrue on mips, where we have 128 signals for historical
+ reasons.
+
+ -- Steve Langasek <vorlon@debian.org> Sun, 18 Nov 2012 12:25:21 -0600
+
+upstart (1.6-2) unstable; urgency=low
+
+ * init/tests/test_job_process.c: cherry-pick upstream fix for test which
+ was accidentally relying on a variable persisting after it's gone out of
+ scope.
+ * init/tests/test_job_process.c: drop change to print path in the test,
+ should be fixed by the above.
+ * init/job_class.[ch]:
+ instead of assuming a fixed value (0) as the
+ default nice value for job processes, use whatever the nice value of the
+ current process is. This will be important later for user sessions
+ where an entire session may be started with a higher nice value; and it
+ fixes running the test suite as part of a nice'd build.
+ * init/tests/test_job_class.c: update test suite to match.
+
+ -- Steve Langasek <vorlon@debian.org> Sun, 18 Nov 2012 01:54:29 -0600
+
+upstart (1.6-1) unstable; urgency=low
+
+ * New upstream release.
+ * Add build-dependency on libjson0-dev.
+ * Export \$TERM in init/Makefile.am; the Debian builddds don't set this,
+ which results in test failures because of assumptions that it will be
+ available.
+ * init/tests/test_job_process.c: tests are failing to re-exec the test
+ binary on mips for no clear reason; output the path so we can try to
+ debug.
+ * init/tests/test_job_process.c: amd64 build failed with an inscrutable
+ error
+ from waitid(). Print errno on failure to try to diagnose this.
+
+ -- Steve Langasek <vorlon@debian.org> Sat, 17 Nov 2012 23:19:37 -0600
+
+upstart (1.5-1) unstable; urgency=low
+
+ * New maintainer.
+ * New upstream release. Closes: #627544.
+ * Drop /etc/init/dbus-reconnect.conf, no longer needed.
+ * Add new jobs from Ubuntu: console, container-detect, failsafe,

- + flush-early-job-log, rcS.conf, shutdown, wait-for-state.
- + * Use 'linux-any' in the architecture check in debian/control, instead of
- + trying to enumerate all non-linux archs. Closes: #634513.
- + * Conflict with lxcguest package (Ubuntu-specific).
- + * Breaks old friendly-recovery (Ubuntu-specific).
- + * Mark upstart multi-arch: foreign.
- + * Add upstart-events(7) manpage from Ubuntu.
- + * Update packaging to dh(1), debian/compat=9 (from Ubuntu).
- + * debian/running-in-container: a script using container.conf to
- + answer whether upstart is running in a container.
- + * refresh soon-to-be-obsolete upstart-job
- helper from Ubuntu.
- + * Add bash-completion support.
- + * Add /var/log/upstart directory and logrotate support.
- + * Don't re-exec init on upgrade, we don't currently support stateful
- + re-exec.
- + * Switch to source format 1.0 for consistency with Ubuntu and for sane(r)
- + VCS handling.
- + * Add versioned dependencies on ifupdown and udev for the prerequisite
- + boot events.
- + * util/shutdown.c: look for sysvinit at /run/initctl before /dev/initctl,
- + so that we're compatible with both the old and new paths used by
- + sysvinit in Debian. Closes: #659540.
- + * Move to bzr for the official package Vcs, for greater synergy with the
- + Ubuntu packaging.
- + * Use copyright-format/1.0 for debian/copyright. This drops Scott from
- + the list of copyright holders, as an individual copyright is not
- + attested in any of the upstream sources.
- +
- + -- Steve Langasek <vorlon@debian.org> Mon, 12 Nov 2012 13:38:34 -0800
- +
- +upstart (1.5-0ubuntu9) quantal-proposed; urgency=low
- +
- +
- + * debian/apparmor-profile-load: exit 0 if apparmor_parser fails to not
- + block upgrades (errors will still be logged by upstart). This can be
- + removed once apparmor_parser better deals with new policy on old kernels
- + - LP: #1058356
- +
- + -- Jamie Strandboge <jamie@ubuntu.com> Fri, 12 Oct 2012 13:54:10 -0500
- +
- +upstart (1.5-0ubuntu8) quantal; urgency=low
- +
- + * Merge of latest upstream including doc fixes, fixes for booting
- + on initramfs-less systems and improved error handling in spawn
- + failure scenarios (LP: #980917, #1032101).
- +
- + -- James Hunt <james.hunt@ubuntu.com> Wed, 08 Aug 2012 10:05:34 +0100

+

+upstart (1.5-0ubuntu7) precise-proposed; urgency=low

+

+ * Correct a build failure from the previous upload.

+

+ -- Steve Langasek <steve.langasek@ubuntu.com> Thu, 26 Apr 2012 07:48:17 -0700

+

+upstart (1.5-0ubuntu6) precise-proposed; urgency=low

+

+ * debian/upstart.logrotate: don't create empty files after rotation;

+ upstart will automatically create

new log files for jobs as needed.

+ * init/main.c: restore the fix for bug #540256; we know the console setup

+ is taken care of by plymouth in Ubuntu, so upstart changing the console

+ settings just makes trouble (such as turning echo back on when it

+ shouldn't be). LP: #876626.

+

+ [James Hunt]

+ * debian/upstart-job: Only attempt to handle disabled jobs if the running

+ version of Upstart supports such a query (LP: #985755, #984474).

+ * debian/manpages/upstart-events.7: Fixed typo and corrected reference to

+ 'kill signal' stanza.

+

+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 25 Apr 2012 13:23:34 -0700

+

+upstart (1.5-0ubuntu5) precise; urgency=low

+

+ * debian/upstart-job: Add in handling for disabled jobs:

+ - Do not restart a job if disabled, unless job was forcibly started.

+ - Do stop a disabled job that was forcibly started.

+ Resolves issue where 'invoke-rc.d restart' erroneously started disabled

+ jobs on package upgrade (LP:

#974147)

+

+ -- James Hunt <james.hunt@ubuntu.com> Tue, 10 Apr 2012 09:19:03 +0100

+

+upstart (1.5-0ubuntu4) precise; urgency=low

+

+ * debian/apparmor-profile-load: don't run in a container. This can

+ hopefully be removed after stacked profiles are supported and

+ used by lxc. (LP: #978297)

+

+ -- Serge Hallyn <serge.hallyn@ubuntu.com> Tue, 10 Apr 2012 14:55:41 -0500

+

+upstart (1.5-0ubuntu3) precise; urgency=low

+

+ * debian/manpages/upstart-events.7: Correct emitter for

+ "static-network-up" event.

```

+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 28 Mar 2012 11:59:56 +0100
+
+upstart (1.5-0ubuntu2) precise; urgency=low
+
+ * debian/conf/flush-early-job-log.conf: Change initctl command from
+ 'flush-early-job-log' to 'notify-disk-writeable' to reflect new name.
+ * init/man/init.8: Remove duplicate telinit(8).
+ * debian/manpages/upstart-events.7:
+ - Added table 'Job Goals and State Transitions'.
+ - Corrected errors and omissions in 'Job Lifecycle' section.
+
+
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 28 Mar 2012 11:00:04 +0100
+
+upstart (1.5-0ubuntu1) precise; urgency=low
+
+ * FFe. LP: #962124.
+ * New upstream 1.5 release.
+ - fix boot failure when /dev/pts is not mounted before upstart starts.
+ LP: #936667.
+ - fix a file descriptor leak on job restarts. LP: #940290.
+ * debian/conf/failsafe.conf: Added missing "emits" which breaks
+ 'initctl check-config'.
+ * debian/manpages/upstart-events.7: Added 'failsafe-boot' and
+ 'recovery' events.
+
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 22 Mar 2012 13:50:31 +0000
+
+upstart (1.4-0ubuntu9) precise; urgency=low
+
+ [ Steve Langasek ]
+ * debian/conf/failsafe.conf: instead of waiting for the 'runlevel' event
+ before considering failsafe done, stop this job as soon as we're
+ starting rc-sysinit; that way, any delays in /etc/rcS.d will not cause
+ confusing messages about networking delays when the network is not the
+ problem. (LP: #950662)
+
+
+ [ James Hunt ]
+ * init/log.c:log_read_watch(): Set remote_closed for scenarios where error
+ handler never called. (LP: #935585)
+
+
+ [ Serge Hally ]
+ * debian/conf/power-status-changed.conf: shut down on getting SIGPWR.
+ Unprivileged tasks can't send this signal. In particular this will
+ allow clean shutdown of containers from the host.
+ (See http://www.makelinux.net/man/7/P/power-status-changed)

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+
+ [ Stéphane Graber ]
+ * Rename Serge's job to shutdown.conf to avoid a name conflict with the
+   event power-status-changed.
+
+ -- Stéphane Graber <stgraber@ubuntu.com> Fri, 16 Mar 2012 13:48:04 -0400
+
+upstart (1.4-0ubuntu8) precise; urgency=low
+
+ * init/tests/test_job_process.c:
+   - close_all_files(): Correct type of index variable.
+   - test_run():
+     - "with single line command writing lots of data fast and exiting":
+     - add waitid() call to ensure log is not added to unflushed list.
+     - "with log object freed on process exit":
+
+       - add waitid() call to ensure log is not added to unflushed list.
+ * util/tests/test_initctl.c: test_flush_early_job_log():
+   - "with job ending before log disk writeable": Give Upstart a chance
+     to run the job as sometimes we see the job pid in the output which
+     causes the test to fail.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 17 Feb 2012 10:58:02 -0500
+
+upstart (1.4-0ubuntu7) precise; urgency=low
+
+ * debian/manpages/upstart-events.7: Added missing events 'container' and
+   'not-container'.
+ * Update 'runlevel' event emission time in upstart-events(7) (LP: #921501).
+ * Merge of important upstream log fixes to avoid spinning when a job
+   which leaks fds (such as 'sshd -D') is stopped (LP: #926468).
+ * Merge of lp:~jamesodhunt/upstart/early-job-log-flush to allow jobs that
+   _end_ very early in the boot to have their output logged.
+ * debian/conf/flush-early-job-log.conf: Upstart job to force flushing of
+   early job log output data
+   when disk becomes writeable.
+ * Re-enable job logging by default.
+
+ [ Steve Langasek ]
+ * init/tests/test_job_process.c: close all fds before running tests that
+   check for unexpected open fds, so that files leaked from the environment
+   don't cause the test suite to fail gratuitously. LP: #926473.
+ * bump debhelper compat to 9 and adjust debian/rules to use the
+   dpkg-buildflags interfaces, so that upstart can be cross-compiled and
+   also so we pick up any future hardening flags for free.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Thu, 16 Feb 2012 07:52:11 +0000
+

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+upstart (1.4-0ubuntu6) precise; urgency=low
+
+ [ Serge Hallyn ]
+ * debian/conf/container-detect.conf: an upstart job to track whether upstart
+   detected itself running in a container.
+ * debian/running-in-container: a script using container.conf to
+   answer whether upstart is running in a container.
+ * debian/conf/console.conf: run getty on /dev/console when running
+   in a
+   lxc container.
+ * debian/control: conflict with lxcguest.
+
+ [ Stéphane Graber ]
+ * debian/conf/container-detect.conf: extend to also detect OpenVZ and vserver
+   as well as write the type in /run/container_type and emit either:
+   - container CONTAINER=type
+   (where type is lxc, lxc-libvirt, openvz or vserver)
+   - not-container
+ * debian/running-in-container: extend to also print the type of container.
+ * Rebase debian/conf/console.conf on debian/conf/tty1.conf.
+ * Update tty[1234].conf to start on regular machines and LXC containers.
+ * Update tty[56].conf to only start on regular machines.
+
+ -- Stéphane Graber <stgraber@ubuntu.com> Wed, 08 Feb 2012 16:44:59 -0500
+
+upstart (1.4-0ubuntu5) precise; urgency=low
+
+ * Merge of important upstream log fixes to handle scenario attempts
+   are made to exec(3) directly non-existent commands. (LP: #922754)
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 03 Feb 2012 14:16:40 +0000
+
+upstart (1.4-0ubuntu4) precise;
+urgency=low
+
+ * Disable job logging by default again due to a reported regression with
+   plymouth-upstart-bridge and upstart itself taking 100% CPU. Use --log
+   at boot time again for testing.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Fri, 27 Jan 2012 11:04:05 -0800
+
+upstart (1.4-0ubuntu3) precise; urgency=low
+
+ [ Stéphane Graber ]
+ * Mark upstart Multi-Arch:foreign
+
+ [ James Hunt ]
+ * Merge of important logger fixes from upstream lp:upstart

```



```

+ (LP: #912558).
+ * Reverted temporary fix to disable job logging.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 26 Jan 2012 15:13:25 +0000
+
+upstart (1.4-0ubuntu2) precise; urgency=low
+
+ * init/main.c: Temporarily disable default job logging whilst
+ investigating bug 912558 (can be re-enabled with
+ _temporary_ '--log' option).
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 06 Jan 2012 16:11:23 +0000
+
+upstart (1.4-0ubuntu1) precise; urgency=low
+
+ * New upstream 1.4 release.
+ * debian/upstart.dirs:
+   Create /var/log/upstart to hold job logs.
+ * debian/upstart.logrotate: Logrotate script for job logs.
+ * po/en@boldquot.gmo, po/en@quot.gmo: Overwrite with upstream versions to
+ keep bzr happy. This makes the files technically "wrong" (since the
+ Ubuntu Upstart code has additional messages not in upstream), but they get
+ re-generated on build so it all works out.
+ * debian/manpages/upstart-events.7: Add missing 'static-network-up'
+ event (LP: #889047).
+ * debian/manpages/upstart-events.7: Add missing
+ 'deconfiguring-networking' event (LP: #904175).
+ * Upstream merge for minor test fixes.
+ * Upstream merge for review fixes.
+ * Merge of upstream fix for running tests in environment not
+ supporting full POSIX SIGCHLD semantics.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 22 Dec 2011 16:51:43 +0000
+
+upstart (1.3-0ubuntu11) oneiric-proposed; urgency=low
+
+ * debian/conf/failsafe.conf: stop on static-network-up, so that a slow
+
+ runlevel switch doesn't leave a confusing message on screen about
+ starting up without networking. LP: #881079.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 26 Oct 2011 12:05:47 -0700
+
+upstart (1.3-0ubuntu10) oneiric; urgency=low
+
+ [ Clint Byrum ]
+ * debian/conf/failsafe.conf: do delay as script, not pre-start, so
+ that the messages/delays are stopped on runlevel immediately. emit

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- + as an event, failsafe-boot, to provide finer grained control.
- + (LP: #863864)
- + * conf/rc-sysinit.conf: change from 'started failsafe' to 'failsafe-boot'
- + to accomodate changes to failsafe.conf.
- +
- + [Steve Langasek]
- + * Document device-not-ready in upstart-events(7). LP: #805510.
- + * Document desktop-shutdown in upstart-events(7). LP: #854329.
- + * Mention lightdm in the list of example DMs in upstart-events(7), since
- + it's now the default...
- +
- + -- Steve Langasek <steve.langasek@ubuntu.com> Mon, 03 Oct 2011 18:37:04 -0700
- +
- +upstart (1.3-0ubuntu9) oneiric;
- urgency=low
- +
- + * Update rcS.conf to only start single user mode but not friendly-recovery.
- + (LP: #575469)
- + * Mark upstart as breaking friendly-recovery << 0.2.13
- +
- + -- Stéphane Graber <stgraber@ubuntu.com> Thu, 15 Sep 2011 16:04:17 -0400
- +
- +upstart (1.3-0ubuntu8) oneiric; urgency=low
- +
- + * debian/conf/failsafe.conf: Add plymouth messages to help users
- + understand why the system boot takes longer when they have
- + static network interfaces defined. (LP: #847782)
- +
- + -- Clint Byrum <clint@ubuntu.com> Wed, 14 Sep 2011 18:53:10 -0700
- +
- +upstart (1.3-0ubuntu7) oneiric; urgency=low
- +
- + * debian/conf/failsafe.conf: raise timeout to 120 seconds to
- + allow for very slow DHCP interfaces to come up on servers.
- + (LP: #839595)
- +
- + -- Clint Byrum <clint@ubuntu.com> Sun, 04 Sep 2011 09:29:27 -0700
- +
- +upstart (1.3-0ubuntu6) oneiric; urgency=low
- +
- + [Steve Langasek]
- + * Fix maintainer field to be compliant with policy definition
- +
- + [Clint Byrum]
- + * conf/rc.conf: document
- events that are emitted by sysvinit
- + jobs to quiet 'initctl check-config'
- + * extra/conf/upstart-udev-bridge.conf: narrow definition to

- + only the events actually emitted. (LP: #819928)
- + * debian/conf/failsafe.conf: new job for critical services to
- + start on.
- + * conf/rc-sysinit.conf: start after static-network-up or failsafe
- + so that runlevel 2 is only entered with all static net interfaces
- + up. (LP: #580319)
- +
- + -- Clint Byrum <clint@ubuntu.com> Wed, 10 Aug 2011 08:44:43 -0500
- +
- +upstart (1.3-0ubuntu5) oneiric; urgency=low
- +
- + * Upstream cherry-pick for user session fixes
- + ("bzip merge -r 1318..1324 lp:upstart").
- +
- + -- James Hunt <james.hunt@ubuntu.com> Mon, 25 Jul 2011 17:09:47 +0100
- +
- +upstart (1.3-0ubuntu4) oneiric; urgency=low
- +
- + * init/main.c: main(): Add support for "/run" directory with fallback to
- + old location for initramfs state passing (LP: #810956).
- + * Upstream cherry-pick to get dbus fix ("bzip merge -r 1314.. lp:upstart").
- +
- +
- + -- James Hunt <james.hunt@ubuntu.com> Wed, 20 Jul 2011 14:51:04 +0100
- +
- +upstart (1.3-0ubuntu3) oneiric; urgency=low
- +
- + * init/paths.h: Synced with upstream since Ubuntu file appears to have
- + diff applied twice, causing redefines.
- +
- + -- James Hunt <james.hunt@ubuntu.com> Fri, 17 Jun 2011 09:59:49 +0100
- +
- +upstart (1.3-0ubuntu2) oneiric; urgency=low
- +
- + * init/Makefile.am: Sync up from upstream, dropping TEST define which is
- + no longer required now we set UPSTART_NO_SESSIONS for init/tests/*.c
- + and specify "--no-sessions" for util/tests/*.c.
- +
- + -- James Hunt <james.hunt@ubuntu.com> Fri, 17 Jun 2011 09:47:36 +0100
- +
- +upstart (1.3-0ubuntu1) oneiric; urgency=low
- +
- + * Merge of Upstart 1.3 (lp:upstart @ 1.3 release tag).
- +
- + -- James Hunt <james.hunt@ubuntu.com> Thu, 16 Jun 2011 15:09:41 +0100
- +
- +upstart (0.9.7-3) oneiric; urgency=low
- +

+ * Merge of upstream lp:~upstart-devel/upstart/0.9: Updates for
+ init-checkconf.
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed,
27 Apr 2011 15:19:47 +0100
+
+upstart (0.9.7-2) oneiric; urgency=low
+
+ * Add wait-for-state generic "wait job".
+
+ -- Clint Byrum <clint@ubuntu.com> Wed, 04 May 2011 08:32:04 -0700
+
+upstart (0.9.7-1) natty; urgency=low
+
+ * New upstream release 0.9.7: Important session fix (LP: #767053).
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 20 Apr 2011 17:44:41 +0100
+
+upstart (0.9.6-1ubuntu1) natty; urgency=low
+
+ [James Hunt]
+ * init/man/init.5: Remove mention of user jobs since facility is
+ disabled.
+
+ [Clint Byrum]
+ * Noting bugs fixed by 0.9.6 release of upstart: (LP: #728531 , LP: #766206)
+
+ -- Clint Byrum <clint@ubuntu.com> Tue, 19 Apr 2011 13:16:46 -0700
+
+upstart (0.9.6-1) natty; urgency=low
+
+ * New upstream release 0.9.6: Important session+chroot fixes.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 15 Apr 2011 15:36:40 +0100
+
+upstart (0.9.5-1ubuntu1) natty; urgency=low
+
+ [Clint Byrum]
+ * debian/upstart-job: change behavior to reload job
configuration on
+ restart, which more closely matches expected sysvinit script
+ behavior. (LP: #707479)
+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 06 Apr 2011 17:50:53 +0100
+
+upstart (0.9.5-1) natty; urgency=low
+
+ * New upstream release 0.9.5.

```

+
+ -- James Hunt <james.hunt@ubuntu.com> Wed, 06 Apr 2011 17:45:38 +0100
+
+upstart (0.9.4-1ubuntu1) natty; urgency=low
+
+ * debian/manpages/upstart-events.7:
+ - Corrected reference to Upstart man page (actually init).
+ - Changed to using proper troff quotes.
+ - Escaped dashes in event names.
+ - Updated date.
+ - Table 1:
+ - Improved name.
+ - Sorted columns: Events, References, and Notes.
+ - Added unmounted-remote-filesystems event.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 24 Mar 2011 14:34:12 +0000
+
+upstart (0.9.4-1) natty; urgency=low
+
+ * New upstream release 0.9.4:
+ - scripts/initctl2dot.py: Fixes to handle 'emits' glob syntax.
+
+ -- James Hunt <james.hunt@ubuntu.com>
+ Thu, 24 Mar 2011 14:31:26 +0000
+
+upstart (0.9.3-1) natty; urgency=low
+
+ * New upstream release 0.9.3:
+ - Added missing emits stanzas for supplied .conf files.
+ - Added wildcard/globbing facility to initctl.c (for check-config
+ command).
+ - Updated man page on emits stanza syntax.
+
+ -- James Hunt <james.hunt@ubuntu.com> Tue, 15 Mar 2011 11:57:11 +0000
+
+upstart (0.9.2-1) natty; urgency=low
+
+ * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 11 Mar 2011 10:34:39 +0000
+
+upstart (0.9.1-1ubuntu5) natty; urgency=low
+
+ * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 10 Mar 2011 14:23:28 +0000
+
+upstart (0.9.1-1ubuntu4) natty; urgency=low

```

```

+
+ * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com> Mon, 07 Mar 2011 15:08:35 +0000
+
+upstart (0.9.1-1ubuntu3) natty; urgency=low
+
+ * debian/upstart.bash-completion: Fixed
+ path so dh_bash-completion
+ considers it a file, not a snippet.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 04 Mar 2011 21:26:27 +0000
+
+upstart (0.9.1-1ubuntu2) natty; urgency=low
+
+ * debian/control: Added Suggests for python, graphviz and
+ bash-completion.
+ * debian/rules: Invoke bash-completion add-on explicitly.
+ * debian/manpages/upstart-events.7: New man page.
+ * debian/upstart.bash-completion: Install bash completion.
+ * debian/upstart.manpages: Install upstart-events.7.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 04 Mar 2011 17:16:26 +0000
+
+upstart (0.9.1-1ubuntu1) natty; urgency=low
+
+ * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com> Fri, 04 Mar 2011 15:13:35 +0000
+
+upstart (0.9.1-1) natty; urgency=low
+
+ * Merge of upstream lp:~upstart-devel/upstart/0.9.
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 03 Mar 2011 20:52:16 +0000
+
+upstart (0.9.0-1ubuntu3) natty; urgency=low
+
+ * Revert dbus/Upstart.conf
+ to the version in 0.6.7, disabling user session
+ support until such time as it has comprehensive test suite coverage.
+
+ -- Colin Watson <cjwatson@ubuntu.com> Mon, 28 Feb 2011 20:29:01 +0000
+
+upstart (0.9.0-1ubuntu2) natty; urgency=low
+
+ * Added extra/Makefile.in to avoid build failing. These files need removing
+ at a later date and debian/rules updating to call dh-autoreconf.

```

```

+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 24 Feb 2011 16:39:28 +0000
+
+upstart (0.9.0-1ubuntu1) natty; urgency=low
+
+ * debian/control: Updated for nih version 1.0.3 (required for nih-dbus-tool
+   and DBUS_TYPE_UNIX_FD).
+ * removed binary message catalog files causing build issues:
+   - po/en@boldquot.gmo
+   - po/en@quot.gmo
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 24 Feb 2011 16:06:13 +0000
+
+upstart (0.9.0-1) natty; urgency=low
+
+ * New upstream release:
+   - Session support (chroots, sessions and user-session).
+   - Socket bridge.
+   - Override file support.
+
+
+ -- James Hunt <james.hunt@ubuntu.com> Thu, 24 Feb 2011 14:22:14 +0000
+
+upstart (0.6.7-7) natty; urgency=low
+
+ * Re-add upstream r977 to allow proper re-exec on shutdown (LP: #672177)
+ * debian/control: adding Breaks on eglibc version that disables
+   telinit u to avoid accidentally installing a version of libc6 that
+   will cause upstart to re-exec and lose its state.
+
+ -- Clint Byrum <clint@ubuntu.com> Fri, 21 Jan 2011 08:39:13 -0800
+
+upstart (0.6.7-6) natty; urgency=low
+
+ * debian/apparmor-profile-load: check for correct AppArmor profile loading
+   interface file (LP: #710649).
+
+ -- Kees Cook <kees@ubuntu.com> Thu, 03 Feb 2011 13:45:32 -0800
+
+upstart (0.6.7-5) natty; urgency=low
+
+ * debian/upstart-job: properly handle jobs that are in state 'start/running'
+   with no PID, by checking only if the goal is 'start'. LP: #603934,
+   #707971.
+
+ -- Steve Langasek <steve.langasek@ubuntu.com> Wed, 26 Jan 2011 14:05:43 -0800
+
+upstart (0.6.7-4)

```

```

natty; urgency=low
+
+ * debian/apparmor-profile-load: allow profiles to be missing for saner
+   packaging integration.
+
+ -- Kees Cook <kees@ubuntu.com> Fri, 14 Jan 2011 13:46:12 -0800
+
+upstart (0.6.7-3) natty; urgency=low
+
+ * debian/rules: make sure apparmor-profile-load is executable.
+
+ -- Kees Cook <kees@ubuntu.com> Wed, 22 Dec 2010 10:55:09 -0800
+
+upstart (0.6.7-2) natty; urgency=low
+
+ * debian/apparmor-profile-load: common AppArmor profile loading helper
+   which can be used by any upstart services, regardless of the state
+   of AppArmor (LP: #692801).
+
+ -- Kees Cook <kees@ubuntu.com> Mon, 20 Dec 2010 16:03:33 -0800
+
+upstart (0.6.7-1) natty; urgency=low
+
+ * New upstream release:
+   - Added manual stanza.
+   - Added debug stanza.
+   - Added start_on, stop_on and emits properties.
+   - Added GoalChanged, StateChanged and Failed signals.
+   - Documentation updates.
+
+ * Added myself as a maintainer.
+
+ -- James Hunt <james.hunt@ubuntu.com>
+   Tue, 14 Dec 2010 17:15:57 +0000
+
+upstart (0.6.6-3) maverick; urgency=low
+
+ * Ubuntu seems to have stopped installing Recommends of Build-Depends,
+   add a Build-Depend on dbus. LP: #602130.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 12 Aug 2010 16:38:05 -0400
+
+upstart (0.6.6-2) maverick; urgency=low
+
+ * Apply patch from trunk to use /dev/null when /dev/console is unavailable
+   due to kernel bugs. This isn't a fix for those bugs, but it does work
+   around it for now. LP: #554172.
+

```


+ -- Scott James Remnant <scott@ubuntu.com> Thu, 12 Aug 2010 09:52:07 -0400

+

+upstart (0.6.6-1ubuntu1) maverick; urgency=low

+

+ * Try buying with -fPIE/-pie on armel again; we have a shiny new armel
+ toolchain and this part of the rules was broken in 0.6.6-1 anyway.

+

+ -- Loïc Minier <loic.minier@ubuntu.com> Fri, 23 Jul 2010 14:54:11 +0200

+

+upstart (0.6.6-1) maverick; urgency=low

+

+ * New upstream release:

+ - All changes were previously merged into this package.

+

+

+ * debian/upstart-job:

+ - Fix output for the force-reload command to only refer to reload(8).

+ LP: #532862.

+

+ * Add debian/source/format with "1.0" to be future compatible.

+ * Add missing \${misc:Depends}.

+ * Bump standards version.

+ * Convert rules to dh7 format.

+

+ -- Scott James Remnant <scott@ubuntu.com> Tue, 27 Apr 2010 13:41:18 -0700

+

+upstart (0.6.5-6) lucid; urgency=low

+

+ * Merge fixes from trunk:

+ - double-quoting of NIH_CFLAGS and NIH_DBUS_CFLAGS on --with-local-libnih

+ - document "env KEY" behaviour

+ * conf/rc.conf, conf/rc-sysinit.conf:

+ - enable console output. LP: #548954.

+ - pass value of INIT_VERBOSE from kernel command-line.

+

+ -- Scott James Remnant <scott@ubuntu.com> Thu, 01 Apr 2010 19:25:36 +0100

+

+upstart (0.6.5-5) lucid; urgency=low

+

+ * init/main.c:

+ - Don't change the settings of the foreground console, this is often
+ owned by plymouth and not supposed to be in Canonical Mode; all other
+ paths have stty sane settings anyway (which these are not), so there
+ really isn't need for init to do this. LP: #540256.

+

+ -- Scott James Remnant <scott@ubuntu.com> Wed, 17 Mar 2010 22:34:55 +0000

+

```

+upstart (0.6.5-4) lucid; urgency=low
+
+ * debian/control:
+ - change Pre-Depends back to Depends, this was a holdover from when we
+   attempted to make Upstart Essential to solve early sysvinitupstart
+   upgrade issues, we backed out the Essential bit but never the use of
+   Pre-Depends. LP: #527722.
+ - add versioned-dependencies on ifupdown for loopback fix that can
+   prevent initscripts from being run. LP: #527830.
+
+ * Merge patches from trunk to use /proc/self/fd instead of /dev/fd, and
+   to always mount /proc and /sys on boot.
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 26 Feb 2010 15:40:58 +0000
+
+upstart (0.6.5-3) lucid; urgency=low
+
+ * udev/upstart-udev-bridge.c: use right variable name, fixing a build
+   failure. (LP: #524484)
+
+
+ -- Scott Moser <smoser@ubuntu.com> Fri, 19 Feb 2010 10:21:33 -0500
+
+upstart (0.6.5-2) lucid; urgency=low
+
+ * udev/upstart-udev-bridge.c:
+ - Increase receiving buffer size for uevents so we don't miss any.
+   LP: #504883.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 17 Feb 2010 15:50:40 +0000
+
+upstart (0.6.5-1) lucid; urgency=low
+
+ * New upstream release:
+ - libnih has been separated out into its own project.
+ - "start on" and "stop on" now support != matches. LP: #513035.
+ - Fixed crash in child when unable to spawn job. LP: #451917.
+ - No longer holds /dev/console open so SAK won't kill init. LP: #486005.
+ - Added missing OPTIONS section to init(8). LP: #449883.
+
+ [ Scott James Remnant ]
+ * Build-depend on libnih-dev, libnih-dbus-dev and nih-dbus-tool to use
+   the separated out libnih.
+ - This has the fix for LP: #436758.
+ - Remove changelog.nih from the doc directory.
+ * Bump udev build-dependency to 147 to
+   match upstream.
+ * udev/Makefile.am: Update to use external libnih

```

+
 + [Johan Kiviniemi]
 + * udev/upstart-udev-bridge.c: Change -device-remove to -device-removed to
 + match -device-added and -device-changed. LP: #516698.
 +
 + -- Scott James Remnant <scott@ubuntu.com> Thu, 04 Feb 2010 16:30:10 -0800
 +
 +upstart (0.6.3-11build1) lucid; urgency=low
 +
 + * Rebuild to pick up relaxed dependency on libc6, after checking that
 + __abort_msg is available with the same signature in eglibc 2.11.
 + LP: #508702.
 +
 + -- Matthias Klose <doko@ubuntu.com> Mon, 18 Jan 2010 16:10:11 +0100
 +
 +upstart (0.6.3-11) karmic-proposed; urgency=low
 +
 + * Make rc-sysinit.conf wait on the loopback interface, to ensure that the
 + interface is up before we process the scripts in /etc/rc?.d. LP: #461725.
 +
 + -- Steve Langasek <steve.langasek@ubuntu.com> Tue, 08 Dec 2009 12:58:37 -0800
 +
 +upstart (0.6.3-10) karmic; urgency=low
 +
 + * Retain the "telinit u" for the case when we're upgrading from pre-0.6
 +
 + (ie. hardy or jaunty). Whups. LP: #451556.
 +
 + -- Scott James Remnant <scott@ubuntu.com> Thu, 15 Oct 2009 17:48:47 +0100
 +
 +upstart (0.6.3-9) karmic; urgency=low
 +
 + * Restore the call to sync() in reboot, have been observing some issues
 + and it looks like ext4 might not be explicitly flushing the disk when
 + remounting read-only.
 +
 + -- Scott James Remnant <scott@ubuntu.com> Wed, 14 Oct 2009 16:40:32 +0100
 +
 +upstart (0.6.3-8) karmic; urgency=low
 +
 + * Rather than calling "telinit u" after upgrade, which will lose state,
 + have the umountroot initscript take care of it for us by setting a
 + flag. LP: #441796.
 + * Don't lose the original default runlevel if /etc/inittab exists without
 + an initdefault line. LP: #405847.
 + * Fix "unhandled error" in shutdown when unable to change runlevel,
 + e.g. due to previous Ubiquity bug. LP: #426332.
 + * Merge change from trunk that makes it possible to build Upstart using

- + a previously built copy of nih-dbus-tool,
especially useful when
- + cross-compiling. LP: #426740.
- + * Merge change from libnih to store our assertion messages in the
- + glibc __abort_msg symbol so apport can pick them up. LP: #429411.
- + * Merge change from libnih to fix compilation issue with eglibc due
- + to changed alphasort() prototype.
- +
- + -- Scott James Remnant <scott@ubuntu.com> Wed, 14 Oct 2009 05:34:13 +0100
- +
- +upstart (0.6.3-7) karmic; urgency=low
- +
- + * Ignore initramfs pids that don't exist. LP: #440071.
- + - you still need to ensure that the pid's parent is init, there's no
- + cheap way to test for that.
- + * Remove "console owner" and "console output" from rc scripts.
- + * Try harder to remove dbus-reconnect.conf
- +
- + -- Scott James Remnant <scott@ubuntu.com> Fri, 02 Oct 2009 21:09:03 +0100
- +
- +upstart (0.6.3-6) karmic; urgency=low
- +
- + * Don't use "telinit q" to reconnect to D-Bus, since that breaks
- + lots of things. Invent another secret way instead.
- +
- + [Steve Langasek]
- + *
- + upstart-job's restart target must also not fail when the service is not
- + yet started. LP: #430883.
- +
- + -- Scott James Remnant <scott@ubuntu.com> Thu, 01 Oct 2009 15:26:19 +0100
- +
- +upstart (0.6.3-5) karmic; urgency=low
- +
- + * Update autoconf and automake files. LP: #435252.
- +
- + -- Scott James Remnant <scott@ubuntu.com> Wed, 23 Sep 2009 14:16:34 -0700
- +
- +upstart (0.6.3-4) karmic; urgency=low
- +
- + [Scott James Remnant]
- + * Reduce the priority of the stopped by/continued by messages so that
- + they are only shown when --verbose on the kernel command-line.
- + LP: #401333.
- + * Add a hack to look for /dev/.initramfs/*.pid files on startup and
- + "fake" start jobs of those names. Basically this means that "status"
- + and "stop" work for things like bootchart and usplash.
- + * Implement a "reload" command in initctl that retrieves the current pid

+ of the job and sends it the HUP signal. LP: #433544.

+

+ [Steve Langasek]

+ * debian/upstart-job:

+ - give proper policy-compliant behavior of the start command: detect if

+ the job is already running using upstart status, and if so return success.

+ - same for the stop command: return success if the job is already stopped.

+ - when \$DPKG_MAINTSCRIPT_PACKAGE is set, don't spit warnings out because

+ it's not the user's fault - we're being invoked by a maintainer script.

+

+ -- Scott James Remnant <scott@ubuntu.com> Tue, 22 Sep 2009 13:56:48 -0700

+

+upstart (0.6.3-3) karmic; urgency=low

+

+ * debian/upstart-job:

+ - force-reload should only send a HUP signal, since it may not be wise

+ to actually restart (cf. dbus)

+

+ -- Scott James Remnant <scott@ubuntu.com> Wed, 16 Sep 2009 00:10:13 +0100

+

+upstart (0.6.3-2) karmic; urgency=low

+

+ FFE LP: #427356.

+

+ * debian/upstart-job:

+ - Remove trailing "s" from file

+ - Support direct invocation better.

+ * udev/upstart-udev-bridge.c:

+ - New tool to capture events from the udev netlink socket and

+ convert into

+ upstart events.

+ * conf/rc-sysinit.conf:

+ - Run once all filesystems are mounted, rather than on startup

+ * debian/control:

+ - Add dependency on mountall for the filesystem event.

+

+ -- Scott James Remnant <scott@ubuntu.com> Tue, 15 Sep 2009 03:19:09 +0100

+

+upstart (0.6.3-1) karmic; urgency=low

+

+ * New upstream release:

+ - Fixed assertion when a job exits while stopping. LP: #406408.

+ - Fixed compilation on ia64.

+ - nih-dbus-tool(1) manpage no longer installed.

+

+ -- Scott James Remnant <scott@ubuntu.com> Mon, 03 Aug 2009 23:58:47 +0100

+

```

+upstart (0.6.2-2) unstable; urgency=low
+
+ * debian/patches/10-pttrace_include_cleanup.patch
+ - Cleanup header includes. Only include ptrace.h in files that actually
+   need it. This also fixes a build failure on ia64.
+ * debian/rules
+ - Run dh_install with --list-missing.
+
+ -- Michael Biebl <biebl@debian.org> Tue, 28 Jul 2009 15:50:20 +0200
+
+upstart (0.6.2-1) karmic; urgency=low
+
+ * New upstream
+   release:
+ - Fixed assertion when stopping a job during its starting event.
+ - Fixed fork following to not stop on exec() before fork()
+ - Fixed missing chdir() in crash handler.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 22 Jul 2009 10:39:50 +0100
+
+upstart (0.6.1-1) karmic; urgency=low
+
+ * New upstream release:
+ - Fixed race condition in ptrace() code. LP: #264711.
+ - Fixed runlevel to output "unknown" not "N N". LP: #400248.
+ - Fixed runlevel to prefix error messages with filename. LP: #400241.
+
+ * Provide/Conflict/Replace the agreed "upstart-job" meta-package.
+   LP: #399799.
+ * Bump dpkg dependency to 1.2.16
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 16 Jul 2009 18:26:23 +0100
+
+upstart (0.6.0-5) karmic; urgency=low
+
+ * Cherry-pick patch from -r1188 to fix "expect fork" and "expect daemon"
+   LP: #264711.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 14 Jul 2009 15:19:17 +0100
+
+upstart (0.6.0-4) karmic; urgency=low
+
+ * Don't build the testsuite with -fPIE on armel; LP: #398403.
+
+ -- Loïc Minier <lool@dooz.org> Mon, 13 Jul 2009 22:12:34 +0200
+
+upstart (0.6.0-3) karmic; urgency=low

```

```

+
+ * Add Conflicts on older Upstart packages to make update-manager's
+   job easier.
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 10 Jul 2009 10:11:21 +0100
+
+upstart (0.6.0-2) karmic; urgency=low
+
+ * Bump D-Bus build dependency to ensure we get the container abandonment
+   patches, and the GIT version bump.
+ * Actually ship /lib/init/upstart-job
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 09 Jul 2009 17:29:59 +0100
+
+upstart (0.6.0-1) karmic; urgency=low
+
+ * New upstream release ("How appropriate, you fight like a cow")
+   - my customary changes list since pointless, it's basically a
+     complete rewrite.
+   - Handles /bin/sh symlink disappearing. LP: #65024.
+   - Boot parameters may be passed to init scripts. LP: #74664.
+   - reboot implies --force during shutdown.
+     LP: #388738.
+   - reboot no longer iterates /proc/ide. LP: #92685.
+   - much improved documentation. LP: #60429, #72058, #388715.
+
+ * Merge the various upstart packages into a single package, it makes
+   little sense to have it all spread out.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 08 Jul 2009 23:12:03 +0100
+
+upstart (0.3.10-2) karmic; urgency=low
+
+ * debian/upstart.postinst: Use telinit u to re-exec, rather than
+   kill just in case it's not Upstart that's running. LP: #92177.
+ * debian/event.d/system-services/tty*: Run getty in 8-bit clean
+   mode. LP: #273189.
+ * debian/event.d/upstart-compat-sysv/rc-default:
+   - Don't use grep -w, instead split on $IFS and iterate. LP: #385911.
+   - Check for any valid runlevel, not just S. LP: #85014.
+   - Make console owner, since it may spawn sulogin.
+ * debian/event.d/upstart-compat-sysv/rcS:
+   - Spawn sulogin if given -b or "emergency". LP: #193810.
+ * debian/event.d/upstart-compat-sysv/rcS:
+
+   - Make console owner. LP: #211402.
+ * debian/event.d/upstart-compat-sysv/rcS-sulogin:
+   - Place the telinit code in post-stop, checking $UPSTART_EVENT first so

```

```
+ we don't change the runlevel if we were stopped due to a runlevel
+ change. LP: #66002.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 18 Jun 2009 16:19:34 +0100
+
+upstart (0.3.10-1) karmic; urgency=low
+
+ * Compilation fixes.
+ * Fixed assertion caused by the post-start or pre-stop scripts
+ exiting after the main process of a respawning job had exited.
+ LP: #381048.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 17 Jun 2009 13:33:40 +0100
+
+upstart (0.3.9-8) intrepid; urgency=low
+
+ * Do not attempt to continue communicating with the restarted upstart
+ (LP: #273761).
+
+ -- Kees Cook <kees@ubuntu.com> Mon, 29 Sep 2008 13:35:21 -0700
+
+upstart (0.3.9-7) intrepid; urgency=low
+
+ * Implement "telinit u" by just sending Upstart SIGTERM with a slightly
+ different
+ patch than Fedora. LP: #188925.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 23 Sep 2008 09:01:09 -0700
+
+upstart (0.3.9-6) intrepid; urgency=low
+
+ * Really fix LP: #237276 properly this time, lost the change while mucking
+ around with bzip.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 04 Jun 2008 22:29:48 +0100
+
+upstart (0.3.9-5) intrepid; urgency=low
+
+ * Correct build problem on amd64 and ia64 by only building libnih and
+ libupstart statically. The shared objects were unwanted, and conflict
+ with -fPIE.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 04 Jun 2008 17:07:12 +0100
+
+upstart (0.3.9-4) intrepid; urgency=low
+
+ * Add missing limits.h, required to build with current libc.
```


+ -- Scott James Remnant <scott@ubuntu.com> Wed, 04 Jun 2008 13:09:32 +0100

+

+upstart (0.3.9-3) intrepid; urgency=low

+

+ * Change dependency from sysvutils to sysvinit-utils. LP: #237276.

+ * Compile with stack -fstack-protector, -fPIE, -z relro, -z now and -pie

+ (MMmm, pie)

+

+ -- Scott James Remnant <scott@ubuntu.com> Wed, 04 Jun 2008 12:59:11 +0100

+

+upstart (0.3.9-2) hardy; urgency=low

+

+ * Start the getty on tty1 after the rc script has stopped rather than

+ at the same time it starts to avoid overwriting by console messages.

+ tty2..6 will still be active if you want an early login. LP: #65230.

+ * If the recovery menu is available start that instead of sulogin when

+ entering single-user-mode.

+

+ -- Scott James Remnant <scott@ubuntu.com> Fri, 11 Apr 2008 13:38:50 +0100

+

+upstart (0.3.9-1) hardy; urgency=low

+

+ * New upstream release:

+ - many bug fixes.

+

+ * Update reference to "edgy" in README.Debian to "hardy". LP: #140037.

+

+ -- Scott James Remnant <scott@ubuntu.com> Sun, 28 Oct 2007 10:51:59 -0400

+

+upstart (0.3.8-2) gutsy; urgency=low

+

+ * Fix broken migration of old-style 'respawn process' stanzas which

+ produced corrupted 'exec' stanzas. Try to fix up files previously

+ corrupted

+ by this. LP: #95210

+

+ -- Scott James Remnant <scott@ubuntu.com> Sun, 28 Oct 2007 10:50:36 -0400

+

+upstart (0.3.8-1) feisty; urgency=low

+

+ * New upstream release:

+ - much improved initctl tool.

+

+ * Update my standard prep_/undo_/rm_conffile functions to take into account

+ current dpkg behaviour wrt obsolete conffiles. The conffile is now moved

+ out of the way in preinst and the moved file deleted in postinst, or moved

+ back in postrm abort-upgrade. This means it's not there when dpkg

- + configures the new version, so the conffile is not left in the list.
- + * Purge backups of modified obsolete conffiles when the package is purged.
- +
- + * Update runlevel and respawn rule generated in migrate-inittab.pl
- + LP: #89314
- +
- + * Drop 00-libnih-update.patch and 01-libnih-sparc-ftbfs.patch; new upstream
- + release includes an up-to-date libnih which contains both patches.
- + * Drop 10-cant-stop-execless-job.patch; included upstream.
- + * Drop 20-complex-event-config.patch;
- + this is going to be significantly
- + changed upstream, and we don't want to ship something strange.
- + * Drop 30-fix-warnings.patch; included upstream.
- +
- + -- Scott James Remnant <scott@ubuntu.com> Sun, 11 Mar 2007 19:19:00 +0000
- +
- +upstart (0.3.5-2) feisty; urgency=low
- +
- + * Changed "start script" to "pre-start script" in sulogin event, the former
- + is no longer recognised.
- +
- + * Applied 01-libnih-sparc-ftbfs.patch; this updates the signal name list
- + to exclude signals not available on that architecture, and add one that's
- + unique to it.
- + * Applied 30-fix-warnings.patch; this corrects a few warnings that spoiled
- + an otherwise clean build log.
- +
- + -- Scott James Remnant <scott@ubuntu.com> Tue, 13 Feb 2007 15:56:33 +0000
- +
- +upstart (0.3.5-1) feisty; urgency=low
- +
- + * New upstream release:
- + - inotify file descriptor leak fixed. LP: #83099.
- + - inotify support is no longer required. LP: #68904.
- + - new job state machine
- + - new event
- + structure, can now include arguments and environment
- +
- + * Applied 00-libnih-update.patch; this updates the libnih library to the
- + latest bzr trunk version, required for the complex-event-config patch.
- + * Applied 10-cant-stop-execless-job.patch from upstream; this corrects a
- + bug where jobs without an "exec" or "script" stanza cannot be stopped.
- + * Applied 20-complex-event-config.patch from upstream; this is an
- + experimental implementation of the "on" keyword that allows definition
- + of complex system states.
- +
- + * System V compatibility jobs updated to match new event names.
- + * rcS job now sets PREVLEVEL and RUNLEVEL. LP: #76304.

```

+
+ * NOTE: After this upgrade, init will appear to have "forgotten" the
+   process ids of your gettys, etc. This is not a critical problem and
+   will be fixed before release. Shutdown will still work as normal.
+
+ -- Scott James Remnant <scott@ubuntu.com> Mon, 12 Feb 2007 13:51:40 +0000
+
+upstart (0.3.2-1) experimental; urgency=low
+
+
+ * New upstream release.
+
+ * debian/upstart.docs
+   - Install the NEWS, AUTHORS, TODO, HACKING and ChangeLog.nih file.
+
+ -- Michael Biebl <biebl@debian.org> Sat, 10 Feb 2007 18:25:10 +0100
+
+upstart (0.3.1-1) feisty; urgency=low
+
+
+ * New upstream release:
+   - start, stop and status are now symlinks to initctl, not to a
+     different, separate utility.
+   - initctl completely rewritten to behave properly.
+   - some upstart-specific options to shutdown and reboot dropped, as
+     these are considered SysV-compatible tools.
+   - "console none" fixed. LP: #70782.
+   - improved documentation. LP: #68805.
+
+ * shutdown and reboot moved to upstart-compatible-sysv.
+
+ * Replace the /usr/share/doc/* directory in upstart-logd,
+   upstart-compatible-sysv, system-services and startup-tasks with a symlink to
+   /usr/share/doc/upstart. This was actually done in a previous package,
+   but the migration missed. LP: #70895.
+
+ -- Scott James Remnant <scott@ubuntu.com>
+   Wed, 13 Dec 2006 17:27:37 +0000
+
+upstart (0.2.7-7) edgy; urgency=low
+
+
+ * Don't abort the postinst if we can't send init SIGTERM. Ubuntu: #64499.
+
+ -- Scott James Remnant <scott@ubuntu.com> Tue, 10 Oct 2006 10:13:05 +0100
+
+upstart (0.2.7-6) edgy; urgency=low
+
+
+ * Don't start gettys on tty2 thru tty6 in runlevels 4 and 5 (matches
+   our sysvinit configuration).
+
+ * Migrate common changes made to /etc/inittab to /etc/event.d by

```

+ adjusting the installed conffiles. Ubuntu: #61539.

+

+ * Include missing AUTHORS and NEWS file in the upstart package.

+ * Include README.Debian which answers common questions. Ubuntu: #60429.

+

+ -- Scott James Remnant <scott@ubuntu.com> Thu, 5 Oct 2006 16:08:34 +0100

+

+upstart (0.2.7-5) edgy; urgency=low

+

+ * Don't set the current runlevel in /var/run/utmp to 0 or 6 if it is

+ already either of those two values. That way we don't end up with

+ either 0 or 6 in the PREVLEVEL variable, which can cause

+ /etc/init.d/rc

+ to be "efficient" and not bother doing

+ anything. Ubuntu: #63852.

+

+ -- Scott James Remnant <scott@ubuntu.com> Wed, 4 Oct 2006 14:06:18 +0100

+

+upstart (0.2.7-4) edgy; urgency=low

+

+ * Can't just start rc-default once in single-user mode, because if we

+ boot into that, that will just return us back to sulogin again. Copy

+ the script out of rc-default into rcS-sulogin to call telinit with the

+ right default runlevel. Ubuntu: #62189.

+

+ * Add Build-Depend on dpkg-dev (>= 1.13.19) due to our use of

+ \${binary:Version}. Ubuntu: #61693.

+

+ -- Scott James Remnant <scott@ubuntu.com> Tue, 26 Sep 2006 17:20:42 +0100

+

+upstart (0.2.7-3) edgy; urgency=low

+

+ * Set the runlevel to "S" when we enter sulogin so that it appears

+ in utmp.

+

+ -- Scott James Remnant <scott@ubuntu.com> Thu, 21 Sep 2006 05:37:25 +0100

+

+upstart (0.2.7-2) edgy; urgency=low

+

+ * Ensure that the same version of upstart is installed as the version of

+ upstart-compat-sysv and

+ upstart-logd; as the IPC protocol may change

+ between releases.

+

+ * Adjust the rcS-sulogin job so that if sulogin exits the default runlevel

+ is entered; but if the job is stopped (e.g. by shutdown) it isn't. The

+ solves the regression introduced in the previous release.

+

```

+ * Revert upstream logd/"quiet" change in favour of doing it in our
+ lsb logging functions instead; seems to work better (fsvo better).
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 21 Sep 2006 03:12:33 +0100
+
+upstart (0.2.7-1) edgy; urgency=low
+
+ * New upstream release:
+ - logd now writes to the console unless "quiet" is specified
+ - runaway jobs caught when they start rather than respawn. Ubuntu: #59807
+
+ * Fix failure to shutdown while in single-user mode, however this means
+ that for edgy you can't exit the sulogin shell to enter the default
+ runlevel; explicitly say what works. Ubuntu: #60626.
+ * Drop unnecessary dependency on util-linux.
+ * Drop sulogin
+ hack, instead depend on the version of sysvutils that
+ includes the real one. Ubuntu: #60965.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 20 Sep 2006 05:39:16 +0100
+
+upstart (0.2.6-1) edgy; urgency=low
+
+ * New upstream release:
+ - fix infinite loop caused by bad waitid() call. Ubuntu: #59459.
+ - halt now behaves as "shutdown -h now". Ubuntu: #59720.
+
+ -- Scott James Remnant <scott@ubuntu.com> Wed, 13 Sep 2006 22:16:17 +0100
+
+upstart (0.2.5-1debian1) unstable; urgency=low
+
+ * upstart-compat-sysv: Depend on sysvinit-utils instead of sysvutils.
+ * Set myself as maintainer with approval from martin f. krafft.
+ * Changed section from base to admin.
+ * Added a patch to make it compile against glibc 2.3.
+
+ -- Michael Biebl <biebl@teco.edu> Tue, 12 Sep 2006 16:29:12 +0200
+
+upstart (0.2.5-1) edgy; urgency=low
+
+ * New upstream release:
+ - no longer spins when no stalled event handler. Ubuntu: #59170.
+ - shutdown works when under sysvinit.
+ Ubuntu: #58523;
+ - shutdown -k implemented. Ubuntu: #58723.
+ - telinit sends shutdown event for 0, 1 and 6. Ubuntu: #58913.
+ - basic manual pages included. Ubuntu: #58724.
+

```

+ * upstart-compat-sysv Replaces: sysvinit. Ubuntu: #59427.

+ * upstart Recommends: upstart-compat-sysv, startup-tasks & system-services.

+

+ * New upstart-logd package includes the logd daemon that can will log

+ output of jobs with "console logged" (the default) in their description

+ to /var/log/boot.

+

+ * Add /etc/event.d/rc0 that is run on the "halt" event (neither -H or -P

+ given), and modify rc0-halt to run on "system-halt" (-H given) and

+ rc0-poweroff to run on "power-off" (-P given). Ubuntu: #59134.

+ * Fix the control-alt-delete job to run on the "ctrlaltdel" event so

+ that it's triggered properly. Ubuntu: #59398.

+ * Fix single-user mode.

+

+ -- Scott James Remnant <scott@ubuntu.com> Sat, 9 Sep 2006 05:10:12 +0100

+

+upstart (0.2.1-7) edgy; urgency=low

+

+

+ * Remove the Essential tags again, they didn't solve the problem we

+ hoped they would (dpkg/apt still won't remove sysvinit without

+ serious persuasion) and I don't think these packages should be.

+

+ -- Scott James Remnant <scott@ubuntu.com> Thu, 7 Sep 2006 02:42:33 +0100

+

+upstart (0.2.1-6) edgy; urgency=low

+

+ * Make packages Essential, and change Depends to Pre-Depends so that the

+ packages work when unconfigured (nothing interesting is performed in

+ postinst). Ubuntu: #59005.

+ * Sync priority in debian/control with that in the archive (required)

+ * Drop warning of dire consequences if you install upstart, seeing as it's

+ installed by default.

+

+ * Add new startup-tasks and system-services packages which will contain

+ the /etc/event.d files themselves (other than the main ones).

+ * Move tty definitions into system-services.

+ * Modify tty definitions to start when the rcS task has finished. This

+ puts them in the "right" place when compared

+ to gdm. Ubuntu: #58630.

+

+ * Correct rcS compatibility script to ignore any information in utmp so

+ that all scripts are always run. Ubuntu: #59203.

+ * Make rcS the console owner while it runs, temporary fix for

+ Ubuntu: #58609, #58794, #58796

+ * Include default control-alt-delete handler that reboots the machine.

+

+ -- Scott James Remnant <scott@ubuntu.com> Wed, 6 Sep 2006 21:52:48 +0100

```

+
+upstart (0.2.1-5) edgy; urgency=low
+
+ * upstart-compat-sysv Depends: initscripts (closes: Malone #58979).
+
+ -- Colin Watson <cjwatson@ubuntu.com> Tue, 5 Sep 2006 12:22:50 +0100
+
+upstart (0.2.1-4) edgy; urgency=low
+
+ * Add missing #! line to top of postrm
+
+ -- Scott James Remnant <scott@ubuntu.com> Mon, 4 Sep 2006 08:11:16 +0100
+
+upstart (0.2.1-3) edgy; urgency=low
+
+ * Remove the rc0 configuration file shipped in 0.1.0 that causes all
+   reboots to become shutdowns. Ubuntu: #58557.
+
+ -- Scott James Remnant <scott@ubuntu.com> Sun, 3 Sep 2006 23:24:41
+0100
+
+upstart (0.2.1-2) edgy; urgency=low
+
+ * Don't send the SIGTERM signal unless we're upgrading from a version
+   of upstart that supports re-exec; older versions would cause a kernel
+   PANIC and change from sysvinit does nothing.
+
+ -- Scott James Remnant <scott@ubuntu.com> Sat, 2 Sep 2006 17:18:38 +0100
+
+upstart (0.2.1-1) edgy; urgency=low
+
+ * New upstream release:
+   - compilation fixes.
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 1 Sep 2006 19:51:41 +0100
+
+upstart (0.2.0-1) edgy; urgency=low
+
+ * New upstream release:
+   - upstart includes shutdown, reboot, halt, poweroff, start, stop, status,
+   runlevel and telinit utilities.
+   - "initctl list" will list active jobs.
+   - Events vastly simplified to just simple strings.
+
+ * Compatibility tasks for old rc scripts, along with runlevel and telinit
+   utilities now shipped in upstart-compat-sysv package.
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 1 Sep 2006 02:38:44 +0100

```

```

+
+upstart
(0.1.1-1) edgy; urgency=low
+
+ * New upstream release:
+   - set PATH and TERM in processes
+
+ -- Scott James Remnant <scott@ubuntu.com> Fri, 25 Aug 2006 16:17:52 +0200
+
+upstart (0.1.0-2) edgy; urgency=low
+
+ * Oops, rename /sbin/init to /sbin/upstart as documented. Lost this
+   while battling bsr.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 24 Aug 2006 16:30:54 +0200
+
+upstart (0.1.0-1) edgy; urgency=low
+
+ * Initial release.
+
+ -- Scott James Remnant <scott@ubuntu.com> Thu, 24 Aug 2006 14:27:47 +0200
--- upstart-1.13.2.orig/debian/compat
+++ upstart-1.13.2/debian/compat
@@ -0,0 +1 @@
+9
--- upstart-1.13.2.orig/debian/conf/console.conf
+++ upstart-1.13.2/debian/conf/console.conf
@@ -0,0 +1,11 @@
+# console - getty
+#
+# This service maintains a getty on console from the point the system is
+# started until it is shut down again.
+
+start on stopped rc RUNLEVEL=[2345] and container CONTAINER=lxc
+
+stop on runlevel [!2345]
+
+respawn
+exec /sbin/getty
+8 38400 console
--- upstart-1.13.2.orig/debian/conf/container-detect.conf
+++ upstart-1.13.2/debian/conf/container-detect.conf
@@ -0,0 +1,42 @@
+description "Track if upstart is running in a container"
+
+start on mounted MOUNTPOINT=/run
+
+env container

```



```

+env LIBVIRT_LXC_UUID
+
+emits container
+emits not-container
+
+pre-start script
+ # The "standard" way of telling if we are in a container
+ # is to check for "container" in init's environment.
+ # The code below is for cases where it's not set.
+
+ # Detect old-style libvirt
+ if [ -z "$container" ]; then
+   [ -n "$LIBVIRT_LXC_UUID" ] && container=lxc-libvirt
+ fi
+
+ # Detect OpenVZ containers
+ if [ -z "$container" ]; then
+   [ -d /proc/vz ] && [ ! -d /proc/bc ] && container=openvz
+ fi
+
+ # Detect Vserver containers
+ if [ -z "$container" ]; then
+   VXID="$(cat /proc/self/status | grep ^VxID | cut -f2)" || true
+   [ "${VXID:-0}" -gt 1 ] && container=vserver
+ fi
+
+ if [ -n "$container" ]; then
+   echo "$container" > /run/container_type || true
+   initctl emit --no-wait container CONTAINER=$container
+   exit 0
+ fi
+
+ # If not a container, stop there
+ rm -f /run/container_type
+ initctl emit --no-wait not-container
+ stop
+end script
--- upstart-1.13.2.orig/debian/conf/failsafe.conf
+++ upstart-1.13.2/debian/conf/failsafe.conf
@@ -0,0 +1,44 @@
+# failsafe
+
+description "Failsafe Boot Delay"
+author "Clint Byrum <clint@ubuntu.com>"
+
+start on filesystem and net-device-up IFACE=lo
+stop on static-network-up or starting rc-sysinit

```

```

+
+emits failsafe-boot
+
+console output
+
+script
+ # Determine if plymouth is available
+ if [ -x /bin/plymouth ] && /bin/plymouth --ping ; then
+   PLYMOUTH=/bin/plymouth
+ else
+   PLYMOUTH=":"
+ fi
+
+ # The point here is to wait for 2 minutes before forcibly booting
+ # the system. Anything that is in an "or" condition with 'started
+ # failsafe' in rc-sysinit deserves
+ # consideration for mentioning in
+ # these messages. currently only static-network-up counts for that.
+
+ sleep 20
+
+ # Plymouth errors should not stop the script because we *must* reach
+ # the end of this script to avoid letting the system spin forever
+ # waiting on it to start.
+ $PLYMOUTH message --text="Waiting for network configuration..." || :
+ sleep 40
+
+ $PLYMOUTH message --text="Waiting up to 60 more seconds for network configuration..." || :
+ sleep 59
+ $PLYMOUTH message --text="Booting system without full network configuration..." || :
+
+ # give user 1 second to see this message since plymouth will go
+ # away as soon as failsafe starts.
+ sleep 1
+ exec initctl emit --no-wait failsafe-boot
+end script
+
+post-start exec logger -t 'failsafe' -p daemon.warning "Failsafe of 120 seconds reached."
--- upstart-1.13.2.orig/debian/conf/flush-early-job-log.conf
+++ upstart-1.13.2/debian/conf/flush-early-job-log.conf
@@ -0,0 +1,11 @@
+# flush-early-job-log
+
+ - Ensure cached output from jobs that finish
+ before the disk is writeable are flushed to disk as soon as it does
+ becomes writeable.
+
+description "flush early job output to logs"
+

```

```

+task
+
+start on filesystem
+
+exec initctl notify-disk-writeable
--- upstart-1.13.2.orig/debian/conf/rcS.conf
+++ upstart-1.13.2/debian/conf/rcS.conf
@@ -0,0 +1,28 @@
+# rcS - System V single-user mode compatibility
+#
+# This task handles the old System V-style single-user mode, this is
+# distinct from the other runlevels since running the rc script would
+# be bad.
+
+description "System V single-user mode compatibility"
+author "Scott James Remnant <scott@netsplit.com>"
+
+start on runlevel S
+stop on runlevel [!S]
+
+console owner
+script
+  exec /sbin/sulogin
+end script
+
+post-stop script
+  # Don't switch runlevels if we were stopped by an event, since that
+  # means we're already switching runlevels
+  if [ -n "${UPSTART_STOP_EVENTS}" ]
+  then
+  exit 0
+  fi
+
+  # Switch, passing a magic flag
+  start --no-wait rc-sysinit FROM_SINGLE_USER_MODE=y
+end script
--- upstart-1.13.2.orig/debian/conf/shutdown.conf
+++ upstart-1.13.2/debian/conf/shutdown.conf
@@ -0,0 +1,9 @@
+# Trigger an immediate shutdown when upstart receives SIGPWR
+# this is useful for some UPS monitoring tools and for clean
+# shutdown of containers
+
+description "Trigger an immediate shutdown on SIGPWR"
+start on power-status-changed
+
+task

```

```

+exec shutdown -h now "SIGPWR received"
--- upstart-1.13.2.orig/debian/conf/tty1.conf
+++ upstart-1.13.2/debian/conf/tty1.conf
@@ -0,0 +1,14 @@
+# tty1 - getty
+#
+# This service maintains a getty on tty1 from the point the system is
+# started until it is shut down again.
+
+start on stopped rc RUNLEVEL=[2345] and (
+    not-container or
+    container CONTAINER=lxc or
+    container CONTAINER=lxc-libvirt)
+
+stop on runlevel [!2345]
+
+respawn
+exec /sbin/getty -8 38400 tty1
--- upstart-1.13.2.orig/debian/conf/tty2.conf
+++
upstart-1.13.2/debian/conf/tty2.conf
@@ -0,0 +1,14 @@
+# tty2 - getty
+#
+# This service maintains a getty on tty2 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and (
+    not-container or
+    container CONTAINER=lxc or
+    container CONTAINER=lxc-libvirt)
+
+stop on runlevel [!23]
+
+respawn
+exec /sbin/getty -8 38400 tty2
--- upstart-1.13.2.orig/debian/conf/tty3.conf
+++ upstart-1.13.2/debian/conf/tty3.conf
@@ -0,0 +1,14 @@
+# tty3 - getty
+#
+# This service maintains a getty on tty3 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and (
+    not-container or
+    container CONTAINER=lxc or
+    container CONTAINER=lxc-libvirt)

```

```

+
+stop on runlevel [!23]
+
+respawn
+exec /sbin/getty -8 38400 tty3
--- upstart-1.13.2.orig/debian/conf/tty4.conf
+++ upstart-1.13.2/debian/conf/tty4.conf
@@ -0,0 +1,14 @@
+# tty4 - getty
+#
+# This service
# maintains a getty on tty4 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and (
+    not-container or
+    container CONTAINER=lxc or
+    container CONTAINER=lxc-libvirt)
+
+stop on runlevel [!23]
+
+respawn
+exec /sbin/getty -8 38400 tty4
--- upstart-1.13.2.orig/debian/conf/tty5.conf
+++ upstart-1.13.2/debian/conf/tty5.conf
@@ -0,0 +1,11 @@
+# tty5 - getty
+#
+# This service maintains a getty on tty5 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and not-container
+
+stop on runlevel [!23]
+
+respawn
+exec /sbin/getty -8 38400 tty5
--- upstart-1.13.2.orig/debian/conf/tty6.conf
+++ upstart-1.13.2/debian/conf/tty6.conf
@@ -0,0 +1,11 @@
+# tty6 - getty
+#
+# This service maintains a getty on tty6 from the point the system is
+# started until it is shut down again.
+
+start on runlevel [23] and not-container
+
+stop on runlevel [!23]

```

```

+
+respawn
+exec /sbin/getty -8 38400
tty6
--- upstart-1.13.2.orig/debian/conf/wait-for-state.conf
+++ upstart-1.13.2/debian/conf/wait-for-state.conf
@@ -0,0 +1,60 @@
+author "Clint Byrum <clint.byrum@canonical.com>"
+description "Waiting for state"
+
+
+task
+normal exit 2
+
+
+stop on started $WAIT_FOR or stopped $WAIT_FOR
+
+# These are all arguments for use influencing how this job waits
+env TIMEOUT=30
+env MANUAL_OVERRIDE="N"
+env WAIT_FOREVER="N"
+env WAIT_STATE="started"
+env TARGET_GOAL="start"
+
+# Required args w/ no sensible default, the tests at the beginning of
+# the script are just to guard against WAITER="" or WAIT_FOR="", as the
+# instance line will fail if they are not set, since they have no env
+instance $WAITER$WAIT_FOR
+
+script
+  test -n "$WAIT_FOR" || exit 1
+  test -n "$WAITER" || exit 1
+
+  # We don't want to override the manual stanza
+  # XXX: initctl show-config should share manual w/ us too
+  case $MANUAL_OVERRIDE in
+  N|n|0)
+    if grep -q "^s*manual\s*$" /etc/init/$WAIT_FOR.conf
+    /etc/init/$WAIT_FOR.override 2>/dev/null; then
+      exit 0
+    fi
+  ;;
+  esac
+
+  if [ "$WAIT_STATE" = "stopped" ] ; then
+    TARGET_GOAL="stop"
+  fi
+
+  # Already running/stopped?
+  status $WAIT_FOR | grep -q "$TARGET_GOAL/$WAIT_STATE" && exit 0

```

```

+
+ # Give it a push
+ $TARGET_GOAL $WAIT_FOR || :
+
+ # upstart will kill this shell on started/stopped $WAIT_FOR
+ while sleep $TIMEOUT ; do
+     case $WAIT_FOREVER in
+         N|n|0)
+             exit 100
+             ;;
+         Y|y|1)
+             ;;
+         *)
+             exit 1
+             ;;
+     esac
+ done
+ # Very strange, sleep returned non-zero?
+ exit 1
+end script
--- upstart-1.13.2.orig/debian/control
+++ upstart-1.13.2/debian/control
@@ -0,0 +1,103 @@
+Source: upstart
+Section: admin
+Priority: required
+Maintainer: James Hunt <james.hunt@ubuntu.com>
+XSBC-Orig-Maintainer: Steve Langasek <vorlon@debian.org>
+Uploaders: Scott James Remnant <scott@netsplit.com>,
+    James Hunt <james.hunt@ubuntu.com>
+Standards-Version: 3.9.6
+Build-Depends: debhelper (>= 9), pkg-config (>= 0.22), libnih-dev (>= 1.0.3), libnih-dbus-dev (>= 1.0.3), nih-
+    dbus-tool (>= 1.0.3), libdbus-1-dev (>= 1.2.16), libexpat1-dev (>= 2.0.0), libudev-dev (>= 151-5), libjson0-dev (>=
+    0.10), dbus, bash-completion, dh-autoreconf, autopoint, python3:any, automake (>= 1.12), libdconf-dev,
+    libselinux1-dev [linux-any], libcgmanager-dev [linux-any]
+X-Python3-Version: >= 3.2
+Vcs-Bzr: lp:ubuntu/upstart
+XS-Debian-Vcs-Bzr: nosmart+http://bzr.debian.org/bzr/collab-maint/upstart/trunk/
+XS-Debian-Vcs-Browser: http://anonscm.debian.org/loggerhead/collab-maint/upstart/trunk/
+Homepage: http://upstart.ubuntu.com/
+XS-Testsuite: autopkgtest
+
+Package: upstart
+Architecture: any
+Depends: ${shlibs:Depends}, ${misc:Depends}, sysvinit-utils, init-system-helpers (>= 1.22ubuntu6), initscripts,
+    mountall, ifupdown (>= 0.6.10ubuntu5), libjson0 (>= 0.10-1.1ubuntu1), debianutils (>= 4)
+Suggests:

```

python3, graphviz, bash-completion, upstart-monitor

- +Replaces: upstart-job, sysvinit, startup-tasks, system-services, upstart-bin (<< 1.13.2-0ubuntu10~)
- +Conflicts: upstart-job, sysvinit, startup-tasks, system-services, lxcguest
- +Provides: upstart-job, upstart-compat-sysv, startup-tasks, system-services
- +Breaks: libc6 (<< 2.12.1-0ubuntu12), friendly-recovery (<< 0.2.13), initramfs-tools (<< 0.103ubuntu8), upstart-bin (<< 1.13.2-0ubuntu10~)
- +Multi-Arch: foreign
- +Description: event-based init daemon - essential binaries
- + upstart is a replacement for the /sbin/init daemon which handles
- + starting of tasks and services during boot, stopping them during
- + shutdown and supervising them while the system is running.
- + .
- + This package provides all essential upstart components, sufficient
- + for running user sessions managed by upstart.
- + .
- +Package: upstart-sysv
- +Architecture: linux-any
- +Multi-Arch: foreign
- +Section: admin
- +Priority: extra
- +Conflicts: sysvinit-core, systemd-sysv
- +Replaces:
 - sysvinit (<< 2.88dsf-44~), sysvinit-core, upstart (<< 1.13.2-0ubuntu10~)
- +Pre-Depends: upstart,
- +Depends: \${shlibs:Depends}, \${misc:Depends}, upstart (= \${binary:Version})
- +Description: event-based init daemon - SysV links
- + upstart is a replacement for the /sbin/init daemon which handles
- + starting of tasks and services during boot, stopping them during
- + shutdown and supervising them while the system is running.
- + .
- + This package provides the manual pages and links needed for upstart
- + to replace sysvinit. Installing systemd-sysv will overwrite /sbin/init with a
- + link to upstart.
- + .
- +Package: upstart-bin
- +Architecture: all
- +Priority: extra
- +Section: oldlibs
- +Depends: \${shlibs:Depends}, \${misc:Depends}, upstart
- +Description: event-based init daemon - transitional dummy package
- + This is a transitional dummy package. It can safely be removed.
- + .
- +Package: upstart-monitor
- +Architecture: all
- +Section: utils
- +Priority: optional
- +Depends: \${shlibs:Depends}, \${misc:Depends}, \${python3:Depends},


```

upstart (>= 1.7), python3-dbus
+Recommends: python3-gi
+Description: event monitor for upstart
+ This package contains a utility that may be run both as a
+ command-line tool or as a graphical one that displays upstart
+ events as they are emitted. It is useful for observing system
+ changes and for determining appropriate events for new jobs.
+
+Package: upstart-dconf-bridge
+Architecture: any
+Section: utils
+Priority: optional
+Depends: ${shlibs:Depends}, ${misc:Depends}, ${python3:Depends}, upstart (>= 1.10)
+Description: DConf bridge for upstart
+ This package contains a bridge that allows upstart jobs to react when
+ DConf/gsettings keys are changed.
+
+Package: libupstart1
+Priority: optional
+Architecture: any
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${misc:Depends}, ${shlibs:Depends}
+Multi-Arch: same
+Description: Upstart Client Library
+ The libupstart library allows access to services provided by the Upstart init
+ daemon without having to use low-level D-Bus calls.
+
+
+ This package contains the shared library.
+
+Package: libupstart-dev
+Priority: optional
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: libupstart1 (= ${binary:Version}), ${shlibs:Depends}, ${misc:Depends}
+Description: Upstart Client Library (development files)
+ The libupstart library allows access to services provided by the Upstart init
+ daemon without having to use low-level D-Bus calls.
+
+
+ This package contains the static library and C header files which are
+ needed for developing software using libupstart.
--- upstart-1.13.2.orig/debian/copyright
+++ upstart-1.13.2/debian/copyright
@@ -0,0 +1,19 @@
+Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
+Upstream-Name: upstart
+Upstream-Contact: upstart-devel@lists.ubuntu.com

```

```

+Source: http://http://launchpad.net/upstart
+
+Files: *
+Copyright: 2009-2013 Canonical Ltd.
+License: GPL-2
+ This program is free software; you can redistribute it and/or modify
+ it under the terms
+ of the GNU General Public License version 2, as
+ published by the Free Software Foundation.
+ .
+ This program is distributed in the hope that it will be useful, but
+ WITHOUT ANY WARRANTY; without even the implied warranty of
+ MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
+ General Public License for more details.
+ .
+ On Debian and Ubuntu systems, the complete text of the GNU General Public
+ License can be found in `/usr/share/common-licenses/GPL-2'.
--- upstart-1.13.2.orig/debian/libupstart-dev.install
+++ upstart-1.13.2/debian/libupstart-dev.install
@@ -0,0 +1,5 @@
+usr/lib/*/libupstart.a
+usr/lib/*/libupstart.so
+usr/include/upstart.h
+usr/include/upstart
+usr/lib/*/pkgconfig/libupstart.pc
--- upstart-1.13.2.orig/debian/libupstart1.install
+++ upstart-1.13.2/debian/libupstart1.install
@@ -0,0 +1 @@
+usr/lib/*/libupstart.so.*
--- upstart-1.13.2.orig/debian/libupstart1.symbols
+++ upstart-1.13.2/debian/libupstart1.symbols
@@ -0,0 +1,2 @@
+libupstart.so.1 libupstart1
#MINVER#
+ *@LIBUPSTART_1.0.0 1.9.1
--- upstart-1.13.2.orig/debian/manpages/upstart-events.7
+++ upstart-1.13.2/debian/manpages/upstart-events.7
@@ -0,0 +1,356 @@
+\" t
+.TH upstart-events 7 2013-12-20 upstart
+.\"
+.SH NAME
+upstart-events \- Well-known Upstart events summary
+.\"
+.SH Event Summary
+
+This manual page summarises well-known events generated by Upstart
+running both as the

```

+BR init (8)

+daemon (process ID 1) and a Session Init (process that supervises a user session).

+

+It is not an exhaustive list of all possible events, but rather details a standard set of events expected to be generated on any Ubuntu system running Upstart.

+

+The primary tables, \fBTable 1\fP and \fBTable 2\fP, encode the well-known system and session events respectively, along with the type of each event (listed in \fBTable 3\fP), the emitter of the event (see \fBTable 4\fP) and the approximate time at which the event could be generated. Additionally, the \fINote\fP column indexes into \fBTable 5\fP for further details on a particular event.

+

+See

+BR init (8)

+for a table summarising job goals and possible state transitions.

+

+Note that some events listed in

+B Table 1

+I may

+be available to session jobs (depending on when the Session Init starts). Those events that are available will be prefixed with \fI:sys:\fR. See

+BR upstart-event-bridge (8)

+for further details.

+

+The \fIRef\fP (Reference) column is used to refer to individual events succinctly in the \fITime\fP column.

+

+Note that the \fI<\fP and \fI>\fP characters in the \fITime\fP column denote that the event in the \fIEvent\fP column occurs respectively before or after the event specified in the \fITime\fP column (for example, the \fBmounting\fP(7) event occurs "at some time" after the \fBstartup\fP(7) event, and the \fBvirtual-filesystems\fP(7) event occurs after the last \fBmounted\fP(7) event relating to a virtual filesystem has been emitted).

+

+For further details on events, consult the manual pages and the system job configuration files, usually located in \fI/etc/init\fP.

+.\"

+

+.\" Flush-left to allow table to be viewed on 80-col display without

+.\" wrapping.

+.nr old_po .po

+.nr old_in .in

```

+.po 0
+.in 0
+.sp 1
+\\fbTable 1: Well-Known System Events Summary.\\fP
+.TS
+box, tab (@);
+c | c | c | c | c | c
+c | l | c | c | l | c.
+Ref@Event@Type@Emit@Time@Note
+=
+ @\\fbBall\\-swaps\\fP@S@M@> (5)@
+ @\\fbControl\\-alt\\-delete\\fP(7)@S@A@> (5)@A
+ @container@S@C@> \\fl/run\\fP mounted@Q
+ @dbus\\-activation@S@B@> D\\-Bus client request@
+ @deconfiguring\\-networking@H@V@< non-local IFs down@P
+ @desktop\\-session\\-start@H@D@> \\fbX\\fP(7) session created@B
+ @desktop\\-shutdown@H@D@> \\fbX\\fP(7) session ended@O
+ @device\\-not\\-ready@H@M@> (2)@N
+ @drm\\-device\\-added@S@U@> (5)@C
+ @failsafe\\-boot@S@X@> (7) and local IF@S
+ @file@S@K@> (1)@U
+7@\\fbFilesystem\\fP@S@M@After last (1)@D
+ @graphics\\-device\\-added@S@U@> (5)@C
+ @\\fbKeyboard\\-request\\fP(7)@S@A@>
(5)@E
+ @\\fbLocal\\-filesystems\\fP(7)@S@M@> (6)@
+ @login\\-session\\-start@H@D@< DM running@F
+1@\\fbMounted\\fP(7)@H@M@> associated (2)@G
+2@\\fbMounting\\fP(7)@H@M@> (5)@H
+3@net\\-device\\-added@S@U@> (5)@C
+ @net\\-device\\-changed@S@U@> (5)@C
+ @net\\-device\\-down@S@F@< (4)@C
+4@net\\-device\\-removed@S@U@> (5)@C
+ @net\\-device\\-up@S@F,N@> (3)@C
+ @not\\-container@S@C@> \\fl/run\\fP mounted@Q
+ @\\fbPower\\-\\%status\\-\\%changed\\fP(7)@S@I@> (5)@I
+ @recovery@S@G@Boot (<5)@R
+ @\\fbRemote\\-\\%filesystems\\fP(7)@S@M@> (6)@
+ @rotate\\-logs@H@R@daily@Y
+ @\\fbRunlevel\\fP(7)@M@T@> (7) + (8)@
+ @\\fbSocket\\fP(7)@S@S@> socket connection@X
+5@\\fbStartup\\fP(7)@S@I@Boot@J
+ @\\fbStarted\\fP(7)@S@I@> job started@K
+ @\\fbStarting\\fP(7)@H@I@< job starts@K
+ 8@static\\-network\\-up@S@N@> last static IF up@
+ @\\fbStopped\\fP(7)@S@I@> job stopped@K
+ @\\fbStopping\\fP(7)@H@I@< job stops@K
+ @T{

```

```

+unmounted\-.:remote\-.:filesystems
+T}@H@V@T{
+> last remote FS unmounted
+T}@L
+6@\fBvirtual\-.:filesystems\fP(7)@S@M@>
last virtual FS (1)@M
+.TE
+.po \n[old_po]
+.in \n[old_in]
+.P
+Key:
+ \aqDM\(\aq is an abbreviation for Display Manager.
+ \aqFS\(\aq is an abbreviation for filesystem.
+ \aqIF\(\aq is an abbreviation for Network Interface.
+
+.\" Flush-left to allow table to be viewed on 80-col display without
+.\" wrapping.
+.nr old_po .po
+.nr old_in .in
+.po 0
+.in 0
+.sp 1
+\fBTable 2: Well-Known User Events Summary.\fP
+.TS
+box, tab (@);
+c | c | c | c | c | c
+c | l | c | c | l | c.
+Ref@Event@Type@Emit@Time@Note
+=
+ @dbus@S@L@> (1) @W
+ @dconf@S@O@> (1) @
+ @\fBdesktop\-.end\fP(7)@S@J@< (2)@
+ @\fBdesktop\-.start\fP(7)@H@J@> (3)@
+ @file@S@K@> (1)@U
+2@\fBsession\-.end\fP(7)@M@I@< Session Init end@
+1@\fBstartup\fP(7)@S@I@> Session Init start@J
+ @:sys:*@S@E@> \fBupstart\-.event\-.bridge\fP(8) start@
+ @:sys:restarted@S@E@> \fBupstart\-.event\-.bridge\fP(8) start@V
+3@xsession@M@H@> (1)@T
+.TE
+.po \n[old_po]
+.in \n[old_in]
+
+.\"
+.P
+.sp 1
+.nr old_po .po
+.nr old_in .in

```

```

+.po 0
+.in 0
+\fBTable
3: Event Types.\fP
+.TS
+box, tab (@);
+c | l |l
+c | l |l.
+Ref@Event Type@Notes
+=
+H@Hook@T{
+Blocking. Waits for events that \fBstart on\fP or \fBstop on\fP this
+event.
+T}
+M@Method@Blocking task.
+S@Signal@Non-blocking.
+.TE
+.po \n[old_po]
+.in \n[old_in]
+
+.\
+.P
+.nr old_po .po
+.nr old_in .in
+.po 0
+.in 0
+.sp 1
+\fBTable 4: Event Emitters.\fP
+.TS
+box, tab (@);
+c | l |l
+c | l |l.
+Ref@Emitter@Notes
+=
+A@System Administrator (initiator)@Technically emitted by init(8).
+B@\fBdbus\daemon\fP(1)@Run with "\fI\-\-activation=upstart"\fP
+C@container\detect job@
+D@Display Manager@e.g. lightdm/gdm/kdm/xdm.
+E@\fBupstart\event\bridge\fP(8)@
+F@\fBifup\fP(8) or \fBifdown\fP(8)@See \fI/etc/network/\fP.
+G@bootloader or initramfs@
+H@xsession\init session job@
+I@\fBinit\fP(8)@Either PID 1 or a Session Init.
+J@job that starts desktop@gnome\session job for Ubuntu.
+K@\fBupstart\file\bridge\fP(8)@See \fBfile\event\fP(7).
+L@\fBupstart\dbus\bridge\fP(8)@See \fBdbus\event\fP(7).
+M@\fBmountall\fP(8)@
+N@network\interface

```

job@
 +O@\fBupstart\-dconf\-bridge\fP(8)@See \fBdconf\-event\fP(7).
 +R@\fI/etc/cron.daily/upstart\fP@See \fBcron\fP(8).
 +S@\fBupstart\-socket\-bridge\fP(8)@See \fBsocket\-event\fP(7).
 +T@\fBtelinit\fP(8), \fBshutdown\fP(8)@
 +U@\fBupstart\-udev\-bridge\fP(8)@
 +V@System V init system@
 +X@failsafe job@
 +.TE
 +.po \n[old_po]
 +.in \n[old_in]
 +
 +.\"
 +.P
 +.nr old_po .po
 +.nr old_in .in
 +.po 0
 +.in 0
 +\fBTable 5: Event Summary Notes.\fP
 +.TS
 +box, tab (@);
 +c | l
 +c | l.
 +Note@Detail
 +=
 +A@T{
 +Requires administrator to press Control-Alt-Delete key
 +combination on the console.
 +T}
 +B@Event generated when user performs graphical login.
 +C@T{
 +These are specific examples. \fBupstart\-udev\-bridge\fP(8) will emit
 +events which match the pattern, "\fI\S\fP\-device\-\fI\A\fP" where
 +\fI\A\S\fP(\fI\A is the udev \fI\subsystem\fP and \fI\A\A\fP(\fI\A is the udev \fI\action\fP. See
 +\fBudev\fP(7) and for further details. If you have sysfs
 +mounted, you can look
 +in \fI/sys/class/\fP for possible values for subsystem.
 +T}
 +D@Note this is in the singular - there is no \fI\A\filesystems\fP event.
 +E@T{
 +Emitted when administrator presses Alt-UpArrow key combination on
 +the console.
 +T}
 +F@T{
 +Denotes Display Manager running (about to be displayed), but no users
 +logged in yet.
 +T}
 +G@Generated for each mount that completes successfully.

+H@T{
+Emitted when mount attempt for single entry from \fBfstab\fP(5)
+for any filesystem type is about to begin.
+T}
+I@Emitted when Upstart receives the SIGPWR signal.
+J@Initial event (system or Session Init).
+K@T{
+Although the events are emitted by \fBinit\fP(8), the instigator may be
+\fBinitctl\fP(8) if a System Administrator has manually started or
+stopped a job.
+T}
+L@\fI/etc/init/umountnfs.sh\fP.
+M@Emitted when all virtual filesystems (such as \fI/proc\fR) mounted.
+N@T{
+Emitted when the \fI\--dev\--wait\--time\fP timeout is exceeded for
+\fBmountall\fP(8). This defaults to 30 seconds.
+T}
+O@T{
+Emitted
when the \fIX\fP(7) display manager exits at shutdown or reboot, to
+hand off to the shutdown splash manager.
+T}
+P@T{
+Emitted by /etc/init.d/networking just prior to stopping all non-local
+network interfaces.
+T}
+Q@T{
+Either \acontainer\ (aq or \acontainer\ (aq is emitted (depending
+on the environment), but not both.
+T}
+R@T{
+Emitted by either the initramfs or bootloader (for example grub) as the \fIinitial\fP
+event (rather than \fBstartup\fP(7)) to denote the system has booted into
+recovery mode. If recovery was successful, the standard \fBstartup\fP(7)
+event is \fIthen\fP emitted, allowing the system to boot as normal.
+T}
+S@T{
+Emitted to indicate the system has failed to boot within the expected
+time. This event will trigger other jobs to forcibly attempt to bring
+the system into a usable state.
+T}
+T@Only emitted for a graphical session.
+U@See \fBfile\--event\fP(7).
+V@T{
+This is a pseudo-system event emitted directly by the
+.BR upstart\--event\--bridge
(8) "" .
+T}


```

+W@T{
+Emitted by Session Init only since bridge not run as system job by
+default.
+T}
+X@See \fBsocket\--event\fp(7).
+Y@T{
+Used primary by Session Job
+\fI/usr/share/upstart/sessions/logrotate.conf\fp.
+T}
+.TE
+.po \n[old_po]
+.in \n[old_in]
+
+.\
+.SH AUTHOR
+Manual page written by James Hunt
+.RB < james.hunt@ubuntu.com >
+.\
+.SH REPORTING BUGS
+Report bugs at
+.RB < https://launchpad.net/ubuntu/+source/upstart/+bugs >
+.\
+.SH COPYRIGHT
+Copyright \(\co 2011-2013 Canonical Ltd.
+.br
+This is free software; see the source for copying conditions. There is NO
+warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
+.\
+.SH SEE ALSO
+
+.BR all\--swaps (7),
+.BR control\--alt\--delete (7),
+.BR dbus\--daemon (1),
+.BR dbus\--event (7),
+.BR dconf\--event (7),
+.BR file\--event (7),
+.BR filesystem (7),
+.BR ifdown(8)
+.BR ifup (8)
+.BR init (5),
+.BR init (8),
+.BR initctl (8),
+.BR keyboard\--request (7),
+.BR local\--filesystems (7),
+.BR mountall (8),
+.BR
+mounted (7),
+.BR mounting (7),

```

```

+.BR power\|-status\|-changed (7),
+.BR remote\|-filesystems (7),
+.BR runlevel (7),
+.BR shutdown (8),
+.BR socket\|-event (7),
+.BR started (7),
+.BR starting (7),
+.BR startup (7),
+.BR stopped (7),
+.BR stopping (7),
+.BR telinit (8),
+.BR upstart\|-dbus\|-bridge (8),
+.BR upstart\|-dconf\|-bridge (8),
+.BR upstart\|-event\|-bridge (8),
+.BR upstart\|-file\|-bridge (8),
+.BR upstart\|-local\|-bridge (8),
+.BR upstart\|-socket\|-bridge (8),
+.BR upstart\|-udev\|-bridge (8),
+.BR virtual\|-filesystems (7).
+
--- upstart-1.13.2.orig/debian/migrate-inittab.pl
+++ upstart-1.13.2/debian/migrate-inittab.pl
@@ -0,0 +1,143 @@
+#!/usr/bin/perl
+
+use strict;
+use warnings;
+
+my %gettys;
+my $have_cad = 0;
+
+
+
+#-----#
+# Parse /etc/inittab
+#-----#
+
+open INITTAB, "/etc/inittab"
+ or die "Unable to open /etc/inittab: $!";
+
+while
(<INITTAB>) {
+    chomp;
+    s/\s*//;
+
+    next if /\^#/;
+    next unless length;
+
+    my ($id, $rlevel, $action, $process) = split /\:/, $_, 4;

```

```

+
+ warn "missing id field" and next
+ unless defined $id and length $id;
+ warn "missing runlevel field" and next
+ unless defined $rlevel;
+ warn "missing action field" and next
+ unless defined $action and length $action;
+ warn "missing process field" and next
+ unless defined $process;
+
+
+ $have_cad = 1 if $action eq "ctrlaltdel";
+ $gettys{$1} = [ $rlevel, $process ] if $process =~ /getty.*\b(tty\w+)/;
+}
+
+close INITTAB
+ or warn "Error while closing /etc/inittab: $!";
+
+
+##-----#
+# Alter /etc/event.d
+##-----#
+
+unlink "/etc/init/control-alt-delete.conf"
+ unless $have_cad;
+
+foreach (qw/tty1 tty2 tty3 tty4 tty5 tty6/) {
+  unlink "/etc/init/${_}.conf"
+  unless
+    exists $gettys{$_};
+}
+
+foreach (sort keys %gettys) {
+  my ($rlevel, $process) = @{$gettys{$_}};
+
+  my @job;
+  if (-f "/etc/event.d/${_}") {
+    open JOB, "/etc/event.d/${_}"
+    or warn "Unable to open /etc/event.d/${_}: $!" and next;
+    @job = <JOB>;
+    chomp @job;
+    close JOB
+    or warn "Error while closing /etc/event.d/${_}: $!" and next;
+
+    foreach my $rl (qw/2 3 4 5/) {
+      my $idx;
+      for ($idx = 0; $idx < @job; $idx++) {
+        last if $job[$idx] =~ /\s*(start|stop)\s+on\s+runlevel\s+$rl\b/;

```

```

+   }
+
+   if ($idx < @job) {
+   if ($rlevel =~ /$rl/) {
+     $job[$idx] =~ s/^(s*)stop(s+)/$1start$2/;
+   } else {
+     $job[$idx] =~ s/^(s*)start(s+)/$1stop$2/;
+   }
+   } else {
+   if ($rlevel =~ /$rl/) {
+     push @job, "start on runlevel $rl";
+   } else {
+     push @job, "stop on runlevel $rl";
+   }
+   }
+ }
+
+ my $idx;
+ for ($idx = 0; $idx < @job; $idx++) {
+   last if $job[$idx] =~ /^s*respawn\s*/; # match bare 'respawn' too
+ }
+
+ if ($idx
+   < @job) {
+   # only match old-style 'respawn process', not bare 'respawn'
+   $job[$idx] =~ s/^(s*respawn\s+).*/$1$process/;
+ } else {
+   push @job, "respawn";
+   push @job, "exec $process";
+ }
+
+ # Try to fix up effects of previous broken migrations
+ if (@job and $job[$#job] =~ /.*(.?)exec (\1)$/) {
+   $job[$#job] = "exec $1";
+ }
+
+ } else {
+   push @job, "# $_ - getty";
+   push @job, "#";
+   push @job, "# Converted from /etc/inittab entry";
+   push @job, "";
+
+   foreach my $rl (qw/2 3 4 5/) {
+     if ($rlevel =~ /$rl/) {
+       push @job, "start on runlevel $rl";
+     } else {
+       push @job, "stop on runlevel $rl";
+     }
+   }

```

```

+ }
+ push @job, "";
+
+ push @job, "stop on shutdown";
+ push @job, "";
+
+ push @job, "respawn";
+ push @job, "exec $process";
+ }
+
+ open JOB, ">/etc/event.d/.$_"
+ or warn "Unable to write to /etc/event.d/.$_: $!" and next;
+ print JOB map { "$_\n" } @job;
+ unless (close JOB) {
+ warn "Error while closing /etc/event.d/.$_: $!";
+ unlink
+ "/etc/event.d/.$_";
+ next;
+ }
+
+ unless (rename "/etc/event.d/.$_", "/etc/event.d/$_") {
+ warn "Unable to replace /etc/event.d/$_: $!";
+ unlink "/etc/event.d/.$_";
+ next;
+ }
+}
--- upstart-1.13.2.orig/debian/rules
+++ upstart-1.13.2/debian/rules
@@ -0,0 +1,57 @@
+#!/usr/bin/make -f
+
+DEB_BUILD_MAINT_OPTIONS := hardening=+pie,+bindnow
+DEB_LDFLAGS_MAINT_APPEND := -Wl,--as-needed
+DEB_CFLAGS_MAINT_APPEND := -Wall
+
+# Disable optimisations if noopt found in $DEB_BUILD_OPTIONS
+ifneq (,$(findstring noopt,$(DEB_BUILD_OPTIONS)))
+ DEB_LDFLAGS_MAINT_APPEND += -Wl,-O0
+else
+ DEB_CFLAGS_MAINT_APPEND += -Os
+ DEB_LDFLAGS_MAINT_APPEND += -Wl,-O1
+endif
+
+export DEB_BUILD_MAINT_OPTIONS DEB_LDFLAGS_MAINT_APPEND
+DEB_CFLAGS_MAINT_APPEND
+
+%.
+ dh $@ --with bash-completion,autoreconf,python3 --parallel

```

```

+
+override_dh_auto_configure:
+ dh_auto_configure -- --exec-prefix= --enable-selinux \
+ --disable-silent-rules --disable-abi-check \
+ --program-transform-name="s/^init$$/upstart/"
+
+override_dh_auto_build:
+ dh_auto_build
+ --parallel
+
+override_dh_auto_test:
+ ifeq (,$(filter nocheck,$(DEB_BUILD_OPTIONS)))
+ ifeq (0,$(shell id -u))
+ # WARNING: RUNNING TESTS AS ROOT IS KNOWN TO FAIL
+ # WARNING: WILL RUN TESTS, BUT WILL IGNORE FAILURE
+ -dh_auto_build -- -k check || { RET=$$?; find . -name "test-suite.log" -exec cat {} + ; exit $$RET;}
+ else
+ dh_auto_build -- -k check || { RET=$$?; find . -name "test-suite.log" -exec cat {} + ; exit $$RET;}
+ endif
+ endif
+
+override_dh_fixperms:
+ dh_fixperms
+ chmod 755 debian/upstart/lib/init/upstart-job
+ chmod 755 debian/upstart/usr/lib/upstart/migrate-inittab.pl
+
+override_dh_auto_install:
+ dh_auto_install -- pkgconfigdir=\${libdir}/pkgconfig
+
+ # Remove the appropriate dconf files from the upstart package - they
+ # will be added used by the upstart-dconf-bridge.install file.
+override_dh_install:
+ dh_install --list-missing
+ install -m 644 debian/upstart.apport \
+ debian/upstart/usr/share/apport/package-hooks/source_upstart.py
+ rm
+ debian/upstart/usr/share/upstart/sessions/upstart-dconf-bridge.conf
+ rm debian/upstart/etc/init/upstart-dbus-bridge.conf
+
+override_dh_installcron:
+ dh_installcron -p upstart --name upstart
+ --- upstart-1.13.2.orig/debian/source/format
+ +++ upstart-1.13.2/debian/source/format
+ @@ -0,0 +1 @@
+ +1.0
+ --- upstart-1.13.2.orig/debian/source/options
+ +++ upstart-1.13.2/debian/source/options
+ @@ -0,0 +1 @@

```

```

+--extend-diff-ignore=*.gmo
--- upstart-1.13.2.orig/debian/tests/control
+++ upstart-1.13.2/debian/tests/control
@@ -0,0 +1,3 @@
+Tests: force
+Depends: @, dbus
+Restrictions: needs-root build-needed
--- upstart-1.13.2.orig/debian/tests/force
+++ upstart-1.13.2/debian/tests/force
@@ -0,0 +1,13 @@
+#!/bin/sh -e
+#-----
+# Dummy DEP-8 test that does nothing. The reason for having it though
+# is to force auto-package-test to build Upstart and thus run its test
+# suite. This is not strictly necessary
+# (as we already run it on all
+# architectures as part of the package build), running the tests in
+# the the virtualised auto-package-test environment (different to the
+# buldd environment) has shaken out a few bugs in the past.
+#-----
+
+
+. $(dirname $0)/test_setup
+
+exit 0
--- upstart-1.13.2.orig/debian/tests/test_setup
+++ upstart-1.13.2/debian/tests/test_setup
@@ -0,0 +1,25 @@
+#-----
+# Source this file in all tests
+#-----
+
+# user provided by auto-package-testing environment
+user=ubuntu
+
+#-----
+# Assertions
+
+# We must be running as root initially to perform setup
+test $(id -u) -eq 0 || { echo "ERROR: not root"; exit 1; }
+
+# User must exist
+getent passwd $user >/dev/null 2>&1 || \
+ { echo "ERROR: no user '$user'"; exit 1; }
+
+#-----
+#
+Init
+

```

```

+# we need to run as root, but that means all unpacked files are owned by
+# root too.
+chown -R ${user}: . ..
+
+#-----
--- upstart-1.13.2.orig/debian/upstart-dconf-bridge.install
+++ upstart-1.13.2/debian/upstart-dconf-bridge.install
@@ -0,0 +1,4 @@
+sbin/upstart-dconf-bridge
+usr/share/upstart/sessions/upstart-dconf-bridge.conf
+usr/share/man/man8/upstart-dconf-bridge.8
+usr/share/man/man7/dconf-event.7
--- upstart-1.13.2.orig/debian/upstart-job
+++ upstart-1.13.2/debian/upstart-job
@@ -0,0 +1,119 @@
+#!/bin/sh -e
+# upstart-job
+#
+# Symlink target for initscripts that have been converted to Upstart.
+
+set -e
+
+UPSTART_JOB_CONF="/etc/default/upstart-job"
+INITSCRIPT="$(basename "$0")"
+JOB="${INITSCRIPT%.sh}"
+
+if [ "$JOB" = "upstart-job" ]; then
+  if [ -z "$1" ]; then
+    echo "Usage: upstart-job JOB COMMAND" 1>&2
+  exit 1
+  fi
+
+  JOB="$1"
+  INITSCRIPT="$1"
+  shift
+else
+
+  if [ -z "$1" ]; then
+    echo "Usage: $0 COMMAND" 1>&2
+  exit 1
+  fi
+fi
+
+COMMAND="$1"
+shift
+
+ECHO=echo
+ECHO_ERROR=echo

```



```

+if [ -e "$UPSTART_JOB_CONF" ]; then
+ . "$UPSTART_JOB_CONF"
+fi
+if [ -n "$DPKG_MAINTSCRIPT_PACKAGE" ]; then
+ ECHO=:
+ ECHO_ERROR=:
+fi
+
+$ECHO "Rather than invoking init scripts through /etc/init.d, use the service(8)"
+$ECHO "utility, e.g. service $INITSCRIPT $COMMAND"
+
+## Only check if jobs are disabled if the currently _running_ version of
+## Upstart (which may be older than the latest _installed_ version)
+## supports such a query.
+##
+## This check is necessary to handle the scenario when upgrading from a
+## release without the 'show-config' command (introduced in
+## Upstart for Ubuntu version 0.9.7) since without this check, all
+## installed packages with associated Upstart jobs would be considered
+## disabled.
+##
+## Once Upstart can maintain state on re-exec, this change can be
+## dropped (since the currently running version of Upstart will always
+## match the latest installed version).
+
+UPSTART_VERSION_RUNNING=$(initctl version|awk '{print $3}'|tr -d ')
+
+if dpkg --compare-versions "$UPSTART_VERSION_RUNNING" ge 0.9.7
+then
+  initctl show-config -e "$JOB"|grep -q '^  start on' || DISABLED=1
+fi
+
+case $COMMAND in
+status)
+  $ECHO
+  $ECHO "Since the script you are attempting to invoke has been converted to an"
+  $ECHO "Upstart job, you may also use the $COMMAND(8) utility, e.g. $COMMAND $JOB"
+  $COMMAND "$JOB"
+  ;;
+start|stop)
+  $ECHO
+  $ECHO "Since the script you are attempting to invoke has been converted to an"
+  $ECHO "Upstart job, you may also use the $COMMAND(8) utility, e.g. $COMMAND $JOB"
+  if status "$JOB" 2>/dev/null | grep -q ' start/'; then
+    RUNNING=1
+  fi
+  if [ -z "$RUNNING" ] && [ "$COMMAND" = "stop" ]; then

```

```

+     exit 0
+ elif [ -n "$RUNNING" ] && [ "$COMMAND" = "start" ]; then
+     exit 0
+ elif [ -n "$DISABLED" ] && [ "$COMMAND" = "start" ]; then
+
+     exit 0
+ fi
+ $COMMAND "$JOB"
+ ;;
+restart)
+ $ECHO
+ $ECHO "Since the script you are attempting to invoke has been converted to an"
+ $ECHO "Upstart job, you may also use the stop(8) and then start(8) utilities,"
+ $ECHO "e.g. stop $JOB ; start $JOB. The restart(8) utility is also available."
+ if status "$JOB" 2>/dev/null | grep -q ' start/'; then
+     RUNNING=1
+ fi
+ if [ -n "$RUNNING" ] ; then
+     stop "$JOB"
+ fi
+ # If the job is disabled and is not currently running, the job is
+ # not restarted. However, if the job is disabled but has been forced into the
+ # running state, we *do* stop and restart it since this is expected behaviour
+ # for the admin who forced the start.
+ if [ -n "$DISABLED" ] && [ -z "$RUNNING" ]; then
+     exit 0
+ fi
+ start "$JOB"
+ ;;
+reload|force-reload)
+ $ECHO
+ $ECHO "Since the script you are attempting to invoke has been converted to an"
+ $ECHO "Upstart job,
+ you may also use the reload(8) utility, e.g. reload $JOB"
+ reload "$JOB"
+ ;;
+*)
+ $ECHO_ERROR
+ $ECHO_ERROR "The script you are attempting to invoke has been converted to an Upstart" 1>&2
+ $ECHO_ERROR "job, but $COMMAND is not supported for Upstart jobs." 1>&2
+ exit 1
+esac
--- upstart-1.13.2.orig/debian/upstart-monitor.install
+++ upstart-1.13.2/debian/upstart-monitor.install
@@ -0,0 +1,5 @@
+bin/upstart-monitor usr/bin/
+usr/share/icons/hicolor/scalable/apps/upstart-monitor.svg
+usr/share/applications/upstart-monitor.desktop

```

```

+usr/share/man/man8/upstart-monitor.8
+usr/share/upstart/icons/upstart-monitor.svg
--- upstart-1.13.2.orig/debian/upstart-sysv.install
+++ upstart-1.13.2/debian/upstart-sysv.install
@@ -0,0 +1,13 @@
+sbin/halt
+sbin/poweroff
+sbin/reboot
+sbin/runlevel
+sbin/shutdown
+usr/share/man/man5/inittab.5
+usr/share/man/man7/runlevel.7
+usr/share/man/man8/shutdown.8
+usr/share/man/man8/runlevel.8
+usr/share/man/man8/reboot.8
+usr/share/man/man8/telinit.8
+usr/share/man/man8/poweroff.8
+usr/share/man/man8/halt.8
---
upstart-1.13.2.orig/debian/upstart-sysv.links
+++ upstart-1.13.2/debian/upstart-sysv.links
@@ -0,0 +1,3 @@
+sbin/upstart sbin/init
+lib/sysvinit/telinit sbin/telinit
+usr/share/man/man5/upstart.5.gz usr/share/man/man5/init.5.gz
--- upstart-1.13.2.orig/debian/upstart-sysv.postinst
+++ upstart-1.13.2/debian/upstart-sysv.postinst
@@ -0,0 +1,10 @@
+#!/bin/sh
+set -e
+
+# update grub on first install, so that the alternative init system boot
+# entries get updated
+if [ "$1" = configure ] && [ -z "$2" ] && [ -e /boot/grub/grub.cfg ] && which update-grub >/dev/null 2>&1; then
+  update-grub || true
+fi
+
+#DEBHELPER#
--- upstart-1.13.2.orig/debian/upstart-xsessions
+++ upstart-1.13.2/debian/upstart-xsessions
@@ -0,0 +1,18 @@
+# xsessions listed below are run inside an Upstart user session.
+gnome
+gnome-classic
+gnome-fallback
+gnome-flashback-metacity
+gnome-flashback-compiz
+kde-plasma

```

```

+Lubuntu
+Lubuntu-Netbook
+lubuntu-nexus7
+lxgames
+qlubuntu
+ubuntu
+ubuntustudio
+xfce
+xubuntu
+unity8-x11
+unity8-mir
---
upstart-1.13.2.orig/debian/upstart.apport
+++ upstart-1.13.2/debian/upstart.apport
@@ -0,0 +1,195 @@
+#!/usr/bin/python
+"""
+Upstart apport hook.
+
+Handles both Upstart running as PID 1 and as a Session Init
+(non-privileged user).
+
+Limitations:
+
+- does not handle non-default --logdir or --confdir.
+
+"""
+import os
+import re
+import glob
+from apport.hookutils import *
+import apport.packaging
+
+msg = \
+"""
+The contents of your Upstart job configuration files (*.conf and
+*.override) files may help developers diagnose your bug more quickly.
+However, if you have modified them, they may contain sensitive
+information.
+
+Do you want to include any modified job configuration files
+in your bug report?
+"""
+
+def add_root_file(map, file):
+    """
+    Add @file to @map such that @map can be passed to
+    attach_root_command_outputs() to have @file attached to the report

```

```

+ event if
+ it is unreadable by the current user.
+ """
+ if not os.path.exists(file):
+     return
+
+ key = path_to_key(file)
+
+ map[key] = 'cat %s' % file
+
+
+def add_info(report, ui):
+    system_state_file = '/var/log/upstart/upstart.state'
+    system_conf_dir = '/etc/init'
+    session_state_file = None
+    attach_jobs = False
+    package = None
+
+    # files that are not readable by current user
+    unreadable_files = {}
+
+    # Used to determine which details to record.
+    #
+    # For crashes, hangs and recoverable problems, attach all possible
+    # information.
+    #
+    # If we are unable to determine a problem category, prompt the user.
+    category = 'Unknown'
+
+    if 'Package' in report:
+        package = report['Package'].split()[0]
+
+    problem_type = report.get('ProblemType', "")
+
+    # Determine whether this report relates to a System Init issue,
+    # or a Session Init one.
+
+    # Crashes and Hangs should be handled automatically without
+
+    # prompting. Recoverable Problems should also be dealt with in this
+    # way since they are essentially informational reports so prompting
+    # the user is unnecessary and would also only give the user the wrong
+    # impression.
+    if problem_type in ('Crash', 'Hang', 'RecoverableProblem'):
+        if 'ProcStatus' in report:
+            pid_line = re.search('Pid:\t(.*?)\n', report['ProcStatus'])
+            if pid_line:
+                upstart_pid = pid_line.groups()[0]

```

```

+         if upstart_pid:
+             if int(upstart_pid) == 1:
+                 category = 'System'
+             else:
+                 category = 'Session'
+     elif ui:
+         response = ui.choice(
+             "Upstart is used to supervise both the System and users Desktop\n"
+             "sessions. Please choose the option that is most appropriate\n"
+             "for the problem you wish to report\n",
+             ['System', 'Desktop Session'])
+         if
+         response == None:
+             pass
+         if 0 in response:
+             category = 'System'
+         elif 1 in response:
+             category = 'Session'
+
+     report['UpstartBugCategory'] = category
+
+     if problem_type in ('Crash', 'Hang', 'RecoverableProblem'):
+         # crash bugs are private by default
+         attach_jobs = True
+     elif ui and ui.yesno(msg) == True:
+         attach_jobs = True
+
+     if category == 'System' or category == 'Unknown':
+         attach_file(report, '/proc/cmdline', 'ProcKernelCmdline')
+
+     # console output
+     attach_file_if_exists(report, '/var/log/boot.log', 'BootLog')
+
+     if attach_jobs == True:
+
+         # Map of files => package names where each file is an Upstart
+         # job configuration file.
+         file_map = {}
+
+         for file in \
+             glob.glob("%s/*.conf" % system_conf_dir) + \
+             glob.glob("%s/*.override" % system_conf_dir):
+
+             # try and
+             determine which package owns the file
+             owner = apport.packaging.get_file_package(file)
+
+             if owner == None:

```

```

+         # If no package owns it, it's either an admin-created
+         # job, or from a manually installed package, so attach.
+         # XXX: We don't use attach_file() since, although it
+         # handles unreadable files in a sense (by returning
+         # an error string), it does not allow us to grab the
+         # file contents.
+         add_root_file(unreadable_files, file)
+     elif owner != package and owner not in set(file_map.values()):
+         # If the file is owned by another package,
+         # record the package name.
+         #
+         # XXX: note that we exclude the file if it is owned by
+         # the Upstart package itself since the general hooks
+         #
+     already look for modified conffiles.
+     file_map[file] = owner
+
+     # Attach all modified conffiles for all packages which
+     # provide Upstart jobs.
+     for pkg in set(file_map.values()):
+         attach_conffiles(report, pkg)
+
+ if category == 'Session' or category == 'Unknown':
+     log_dir = os.getenv('XDG_CACHE_HOME', os.path.expanduser('~/.cache/upstart/'))
+     conf_dir = os.getenv('XDG_CONFIG_HOME', os.path.expanduser('~/.config/upstart/'))
+     old_conf_dir = os.path.expanduser('~/.init/')
+     session_state_file = os.path.join(log_dir, 'upstart.state')
+
+ if attach_jobs == True:
+     for file in \
+         glob.glob("%s/*.conf" % conf_dir) + \
+         glob.glob("%s/*.override" % conf_dir) + \
+         glob.glob("%s/*.conf" % old_conf_dir) + \
+         glob.glob("%s/*.override" % old_conf_dir):
+         attach_file(report, file)
+
+ add_root_file(unreadable_files,
+ system_state_file)
+
+ attach_root_command_outputs(report, unreadable_files)
+
+ if session_state_file:
+     attach_file_if_exists(report, session_state_file)
+
+ if os.path.exists(system_state_file) or (session_state_file and os.path.exists(session_state_file)):
+     report['Tags'] += ' ' + 'upstart-stateful-reexec-failed'
+
+ report['UpstartRunningSystemVersion'] = command_output(['initctl', '--system', 'version'])

```

```

+
+ if category == 'System' or category == 'Unknown':
+     ursysj = command_output(['initctl', '--system', 'list'])
+     report['UpstartRunningSystemJobs'] = \
+         '\n'.join(sorted(ursysj.split('\n')))
+
+ session_count = 0
+ if category == 'Session' or category == 'Unknown':
+     sessions = command_output(['initctl', 'list-sessions']).split('\n')
+     if sessions and sessions[0]:
+         session_count = len(sessions)
+         report['UpstartRunningSessionCount'] = str(session_count)
+
+
+ # join the running session if possible
+ if not os.environ.get('UPSTART_SESSION', None) and session_count == 1:
+     session = sessions[0].strip().split()[1]
+     if session:
+         os.environ['UPSTART_SESSION'] = session
+
+ if os.environ.get('UPSTART_SESSION', None):
+     report['UpstartRunningSessionVersion'] = command_output(['initctl', 'version'])
+     ursesj = command_output(['initctl', 'list'])
+     report['UpstartRunningSessionJobs'] = \
+         '\n'.join(sorted(ursesj.split('\n')))
--- upstart-1.13.2.orig/debian/upstart.bash-completion
+++ upstart-1.13.2/debian/upstart.bash-completion
@@ -0,0 +1 @@
+contrib/bash_completion/upstart
--- upstart-1.13.2.orig/debian/upstart.dirs
+++ upstart-1.13.2/debian/upstart.dirs
@@ -0,0 +1,2 @@
+usr/share/apport/package-hooks
+var/log/upstart
--- upstart-1.13.2.orig/debian/upstart.docs
+++ upstart-1.13.2/debian/upstart.docs
@@ -0,0 +1,4 @@
+NEWS
+AUTHORS
+TODO
+HACKING
--- upstart-1.13.2.orig/debian/upstart.install
+++
+upstart-1.13.2/debian/upstart.install
@@ -0,0 +1,58 @@
+bin/init-checkconf usr/bin/
+bin/initctl2dot usr/bin/
+debian/conf/*.conf etc/init/

```


- +debian/migrate-inittab.pl usr/lib/upstart/
- +debian/upstart-job lib/init/
- +debian/upstart-xsessions etc/
- +debian/user-conf/*.conf usr/share/upstart/sessions/
- +debian/xsession.d/* etc/X11/Xsession.d/
- +etc/init/*.conf
- +etc/dbus-1/system.d/Upstart.conf
- +sbin/initctl
- +sbin/telinit lib/sysvinit/
- +sbin/reload
- +sbin/restart
- +sbin/start
- +sbin/status
- +sbin/stop
- +sbin/upstart
- +sbin/upstart-dbus-bridge
- +sbin/upstart-event-bridge
- +sbin/upstart-file-bridge
- +sbin/upstart-local-bridge
- +sbin/upstart-socket-bridge
- +sbin/upstart-udev-bridge
- +usr/share/man/man5/upstart.5
- +usr/share/man/man7/control-alt-delete.7
- +usr/share/man/man7/dbus-event.7
- +usr/share/man/man7/drm-device-added.7
- +usr/share/man/man7/graphics-device-added.7
- +usr/share/man/man7/file-event.7
- +usr/share/man/man7/keyboard-request.7
- +usr/share/man/man7/net-device-added.7
- +usr/share/man/man7/net-device-removed.7
- +usr/share/man/man7/power-status-changed.7
- +usr/share/man/man7/socket-event.7
- +usr/share/man/man7/starting.7
- +usr/share/man/man7/stopping.7
- +usr/share/man/man7/session-end.7
- +usr/share/man/man7/startup.7
- +usr/share/man/man7/started.7
- +usr/share/man/man7/stopped.7
- +usr/share/man/man7/upstart.7
- +usr/share/man/man8/init-checkconf.8
- +usr/share/man/man8/initctl.8
- +usr/share/man/man8/initctl2dot.8
- +usr/share/man/man8/start.8
- +usr/share/man/man8/status.8
- +usr/share/man/man8/stop.8
- +usr/share/man/man8/reload.8
- +usr/share/man/man8/restart.8
- +usr/share/man/man8/upstart.8

```

+usr/share/man/man8/upstart-dbus-bridge.8
+usr/share/man/man8/upstart-event-bridge.8
+usr/share/man/man8/upstart-file-bridge.8
+usr/share/man/man8/upstart-local-bridge.8
+usr/share/man/man8/upstart-socket-bridge.8
+usr/share/man/man8/upstart-udev-bridge.8
+usr/share/upstart/sessions/*
---
upstart-1.13.2.orig/debian/upstart.logrotate
+++ upstart-1.13.2/debian/upstart.logrotate
@@ -0,0 +1,8 @@
+/var/log/upstart/*.log
{
+    daily
+    missingok
+    rotate 7
+    compress
+    notifempty
+    nocreate
+}
--- upstart-1.13.2.orig/debian/upstart.maintscript
+++ upstart-1.13.2/debian/upstart.maintscript
@@ -0,0 +1 @@
+rm_conffile /etc/init/upstart-dbus-bridge.conf 1.9.1-0ubuntu4
--- upstart-1.13.2.orig/debian/upstart.manpages
+++ upstart-1.13.2/debian/upstart.manpages
@@ -0,0 +1 @@
+debian/manpages/*
--- upstart-1.13.2.orig/debian/upstart.postinst
+++ upstart-1.13.2/debian/upstart.postinst
@@ -0,0 +1,67 @@
+#!/bin/sh -e
+
+if ! ischroot; then
+ # Do not honour re-exec when requested from within a
+ # chroot since:
+ #
+ # (a) The version of Upstart outside might not support it.
+ # (b) An isolated environment such as a chroot should
+ #     not be able to modify its containing environment.
+ #
+ # A sufficiently new Upstart will actually handle a re-exec
+ # request coming from telinit within a chroot correctly,
+ # but it's simple enough to perform the check here and
+ save
+ # Upstart the effort.
+
+ # Query running version of Upstart, but only when we know

```

```

+ # that initctl will work.
+ #
+ # The calculated version string may be the null string if
+ # Upstart is not running (where for example an alternative
+ # init is running outside a chroot environment) or if the
+ # query failed for some reason. However, the version check
+ # below handles a null version string correctly.
+ UPSTART_VERSION_RUNNING=$(initctl version 2>/dev/null \
+ awk '{print $3}'|tr -d ' ' || :)
+
+ if dpkg --compare-versions "$UPSTART_VERSION_RUNNING" ge 1.9 || [
"$UPSTART_VERSION_RUNNING" = 1.8-ubuntu-full-serialization ]; then
+ # We are not running inside a chroot and the running version
+ # of Upstart supports lossless stateful re-exec, so we can
+ # restart immediately.
+ #
+ # XXX: Note that the check on the running version must
+ # remain *indefinitely* since it's the only safe way to
+ # know if stateful re-exec is supported: simply checking
+ # packaged version
+ # numbers is not sufficient since
+ # the package could be upgraded multiple times without a
+ # reboot.
+ telinit u || :
+ elif [ "$UPSTART_JOB" = "cloud-config" ]; then
+ # If upgraded by cloud-init, do not perform partial
+ # stateful re-exec, as cloud-init instance will fail
+ # to initialise.
+ touch /var/run/init.upgraded || :
+ [ -x /usr/share/update-notifier/notify-reboot-required ] && \
+ /usr/share/update-notifier/notify-reboot-required || true
+
+ elif dpkg --compare-versions "$UPSTART_VERSION_RUNNING" ge 1.6.1; then
+ # Otherwise, perform partial stateful re-exec and
+ # request a reboot.
+ telinit u || :
+ [ -x /usr/share/update-notifier/notify-reboot-required ] && \
+ /usr/share/update-notifier/notify-reboot-required || true
+ else
+ # Before we shutdown or reboot, we need to re-exec so that we
+ # can safely remount the root filesystem; we can't just do that
+ # here because we lose state.
+ touch /var/run/init.upgraded || :
+ fi
+fi
+
+##

```

```

update grub on first install, so that the alternative init system boot
+# entries get updated
+if [ "$1" = configure ] && [ -z "$2" ] && [ -e /boot/grub/grub.cfg ] && which update-grub >/dev/null 2>&1; then
+  update-grub || true
+fi
+
+#DEBHELPER#
--- upstart-1.13.2.orig/debian/upstart.upstart.cron.daily
+++ upstart-1.13.2/debian/upstart.upstart.cron.daily
@@@ -0,0 +1,34 @@@
+#!/bin/sh
+
+# For each Upstart Session Init, emit "rotate-logs" event, requesting
+# the session Inits to rotate their logs. There is no user-daily cron.
+#
+# Doing it this way does not rely on System Upstart, nor
+# upstart-event-bridge(8) running in the Session Init.
+#
+# Note that system-level Upstart logs are handled separately using a
+# logrotate script.
+
+[-x /sbin/initctl ] || exit 0
+
+for file in /run/user/*/upstart/sessions/*.session
+do
+  [ -f "$file" ] || continue
+  [ -h "$file" ] && continue
+
+  file_uid=$(stat -c %u "$file")
+  [ -n "$file_uid" ] || continue
+
+  session=$(grep
\
+    "^UPSTART_SESSION=unix:abstract=/com/ubuntu/upstart-session/[0-9][0-9]*/[0-9][0-9]*$" \
+    "$file" 2>/dev/null || true)
+  [ -n "$session" ] || continue
+
+  session_uid=$(echo "$session" | cut -dV -f5)
+  [ -n "$session_uid" ] || continue
+
+  # Don't allow a user to spoof logrotation for another user.
+  [ "$file_uid" = "$session_uid" ] || continue
+
+  env -i "$session" /sbin/initctl emit rotate-logs >/dev/null 2>&1 || true
+done
--- upstart-1.13.2.orig/debian/user-conf/logrotate.conf
+++ upstart-1.13.2/debian/user-conf/logrotate.conf
@@@ -0,0 +1,66 @@@

```

```

+# logrotate - rotate Upstart job log files to conserve disk space.
+#
+# Currently runs automatically 1 minute after session starts (to give
+# jobs a chance to settle). However, can be run manually any time using
+# 'start logrotate' to force logs to be rotated in low-disk space
+# scenarios.
+
+description "Rotate job log files"
+
+start on startup or :sys:rotate-logs or rotate-logs
+
+task
+
+pre-start script
+
+logrotate=$(command
+  -v logrotate 2>/dev/null || :)
+
+# logrotate is not installed
+[ -z "$logrotate" ] && exit 0
+
+# started by event, so run logrotate normally
+[ -n "$UPSTART_EVENTS" ] && exit 0
+
+# started manually, so force a rotation
+initctl set-env FORCE=--force
+
+end script
+
+script
+
+# started by event, so allow time for main jobs to settle
+[ -n "$UPSTART_EVENTS" ] && [ "$UPSTART_EVENTS" = startup ] && sleep 60
+
+statedir=${XDG_CACHE_HOME:-$HOME/.cache}/logrotate
+statefile="$statedir/status"
+
+logdir=${XDG_CACHE_HOME:-$HOME/.cache}/upstart
+
+mkdir -p "$statedir" || :
+mkdir -p "$logdir" || :
+
+# Sometimes the state file can become corrupt (probably caused by
+# logrotate updating it on shutdown). In these cases the file ends in
+# nul bytes which causes a subsequent logrotate run (even a forced run)
+# to refuse to process it meaning no files get rotated.
+#
+# Hence, if nul bytes are detected, reset the state file to allow logrotate

```

```

+# to work.
+[ -e "$statefile"
] && egrep '^[[:print:]]' "$statefile" && rm "$statefile"
+
+conf=$(mktemp)
+
+cat <<EOF >$conf
+"$logdir/*.log" {
+    hourly
+    missingok
+    rotate 7
+    compress
+    notifempty
+    nocreate
+}
+EOF
+
+logrotate $FORCE -s "$statefile" "$conf" || :
+rm -f "$conf"
+end script
--- upstart-1.13.2.orig/debian/user-conf/xsession-init.conf
+++ upstart-1.13.2/debian/user-conf/xsession-init.conf
@@ -0,0 +1,14 @@
+description "XSession handling"
+author "Stéphane Graber <stgraber@ubuntu.com>"
+
+start on startup
+emits xsession
+
+pre-start script
+ [ -z "$DESKTOP_SESSION" ] && stop || true
+ [ "$SESSIONTYPE" = "gnome-session" ] && initctl set-env --global GNOME_DESKTOP_SESSION_ID=this-
is-deprecated || true
+end script
+
+script
+ exec initctl emit xsession SESSION=$DESKTOP_SESSION SESSIONTYPE=$SESSIONTYPE
+end script
--- upstart-1.13.2.orig/debian/watch
+++ upstart-1.13.2/debian/watch
@@ -0,0 +1,2 @@
+version=3
+http://upstart.ubuntu.com/download/([d\.]+)/upstart-(.*)\.tar\.gz
---
upstart-1.13.2.orig/debian/xsession.d/00upstart
+++ upstart-1.13.2/debian/xsession.d/00upstart
@@ -0,0 +1,12 @@
+# Make ubuntu-upstart an alias for ubuntu

```

```

+if grep -q "^$DESKTOP_SESSION$" /etc/upstart-xsessions; then
+  export XDG_CONFIG_DIRS="/usr/share/upstart/xdg:/etc/xdg"
+
+  BASESESSION=${1% *}
+  BASESESSION=${BASESESSION##*/}
+  if [ "$BASESESSION" = x-session-manager ]; then
+    BASESESSION=$(basename $(readlink /etc/alternatives/x-session-manager))
+  fi
+
+  UPSTART=1
+fi
--- upstart-1.13.2.orig/debian/xsession.d/99upstart
+++ upstart-1.13.2/debian/xsession.d/99upstart
@@ -0,0 +1,14 @@
+# Start the user session
+if [ -n "$UPSTART" ]; then
+  case "$BASESESSION" in
+    gnome-session*|gnome-flashback*)
+      export SESSIONTYPE=gnome-session
+      ;;
+    lxsession*)
+      export SESSIONTYPE=lxsession
+      ;;
+  esac
+
+  STARTUP="/sbin/upstart --user"
+  unset UPSTART
+fi
---
upstart-1.13.2.orig/extra/Makefile.am
+++ upstart-1.13.2/extra/Makefile.am
@@ -23,6 +23,7 @@
conf-session/upstart-event-bridge.conf \
conf-session/upstart-file-bridge.conf \
conf-session/re-exec.conf \
+ conf-session/upstart-udev-bridge.conf \
conf-session/upstart-dbus-session-bridge.conf \
conf-session/upstart-dbus-system-bridge.conf

@@ -33,7 +34,6 @@

dist_init_DATA = \
conf/upstart-socket-bridge.conf \
- conf/upstart-event-bridge.conf \
conf/upstart-file-bridge.conf \
conf/upstart-dbus-bridge.conf

@@ -106,8 +106,9 @@

```

```

upstart_local_bridge_SOURCES = \
upstart-local-bridge.c
nodist_upstart_local_bridge_SOURCES = \
+ $(org_freedesktop_systemd1_OUTPUTS) \
$(com_ubuntu_Upstart_OUTPUTS) \
- $(com_ubuntu_Upstart_Job_OUTPUTS)
+ $(control_com_ubuntu_Upstart_OUTPUTS)
upstart_local_bridge_LDADD = \
$(LTLIBINTL) \
$(NIH_LIBS) \
@@ -224,15 +225,50 @@
--output=$@ $<

+org_freedesktop_systemd1_OUTPUTS = \
+ org.freedesktop.systemd1.c \
+ org.freedesktop.systemd1.h
+
+org_freedesktop_systemd1_XML
= \
+ org.freedesktop.systemd1.xml
+
+$(org_freedesktop_systemd1_OUTPUTS): $(org_freedesktop_systemd1_XML)
+ $(AM_V_GEN)$(NIH_DBUS_TOOL) \
+ --package=$(PACKAGE) \
+ --mode=proxy --prefix=systemd \
+ --default-interface=org.freedesktop.systemd1.Manager \
+ --output=$@ $<
+
+# Server for upstart-local-bridge
+control_com_ubuntu_Upstart_OUTPUTS = \
+ control_com.ubuntu.Upstart.c \
+ control_com.ubuntu.Upstart.h
+
+control_com_ubuntu_Upstart_XML = \
+ com.ubuntu.Upstart.xml
+
+$(control_com_ubuntu_Upstart_OUTPUTS): $(control_com_ubuntu_Upstart_XML)
+ $(AM_V_GEN)$(NIH_DBUS_TOOL) \
+ --package=$(PACKAGE) \
+ --mode=object --prefix=control \
+ --default-interface=com.ubuntu.Upstart0_6 \
+ --output=$@ $<
+
+
+
+
# These have to be built sources because we can't compile object files
# without the header file existing first

```



```

BUILT_SOURCES = \
$(com_ubuntu_Upstart_OUTPUTS) \
- $(com_ubuntu_Upstart_Job_OUTPUTS)
+ $(control_com_ubuntu_Upstart_OUTPUTS)
\
+ $(com_ubuntu_Upstart_Job_OUTPUTS) \
+ $(org_freedesktop_systemd1_OUTPUTS)

CLEANFILES = \
$(com_ubuntu_Upstart_OUTPUTS) \
- $(com_ubuntu_Upstart_Job_OUTPUTS)
+ $(control_com_ubuntu_Upstart_OUTPUTS) \
+ $(com_ubuntu_Upstart_Job_OUTPUTS) \
+ $(org_freedesktop_systemd1_OUTPUTS)

clean-local:
--- upstart-1.13.2.orig/extra/com.ubuntu.Upstart.xml
+++ upstart-1.13.2/extra/com.ubuntu.Upstart.xml
@@ -0,0 +1,29 @@
+<?xml version="1.0" encoding="UTF-8" ?>
+<!-- upstart
+
+  com.ubuntu.Upstart.xml - interface definition for manager object
+
+  Copyright © 2009 Canonical Ltd.
+  Author: Scott James Remnant <scott@netsplit.com>.
+
+  This file is free software; Canonical Ltd gives unlimited permission
+  to copy and/or distribute it, with or without modifications, as long
+  as this notice is preserved.
+
+  Communication and interaction with Upstart through this interface is
+  permitted without restriction.
+ -->
+
+<!DOCTYPE node PUBLIC
+  "-//freedesktop//DTD
+  D-BUS Object Introspection 1.0//EN"
+  "http://www.freedesktop.org/standards/dbus/1.0/introspect.dtd">
+
+<node name="/com/ubuntu/Upstart">
+  <interface name="com.ubuntu.Upstart0_6">
+    <!-- Signal for events being emitted -->
+    <signal name="EventEmitted">
+      <arg name="name" type="s" />
+      <arg name="env" type="as" />
+    </signal>

```

```

+ </interface>
+</node>
--- upstart-1.13.2.orig/extra/conf-session/upstart-udev-bridge.conf
+++ upstart-1.13.2/extra/conf-session/upstart-udev-bridge.conf
@@ -0,0 +1,22 @@
+# upstart-udev-bridge - Bridge udev events into session upstart
+#
+# This helper daemon receives udev events from the netlink socket and
+# emits equivalent Upstart events.
+
+description "Bridge udev events into upstart"
+
+# From upstart-udev-bridge itself
+emits *-device-added
+emits *-device-removed
+emits *-device-changed
+# From http://www.kernel.org/pub/linux/utils/kernel/hotplug/libudev/libudev-udev-device.html
+emits *-device-online
+emits *-device-offline
+
+start
+  on startup
+stop on desktop-end
+
+expect daemon
+respawn
+
+exec upstart-udev-bridge --daemon --user
--- upstart-1.13.2.orig/extra/org.freedesktop.systemd1.xml
+++ upstart-1.13.2/extra/org.freedesktop.systemd1.xml
@@ -0,0 +1,19 @@
+<?xml version="1.0" encoding="UTF-8" ?>
+<!--
+  org.freedesktop.systemd1- interface definition for systemd manager object
+
+  Public Domain
+
+  Generated file using gdbus introspect call against systemd1 instance
+-->
+<!DOCTYPE node PUBLIC "-//freedesktop//DTD D-BUS Object Introspection 1.0//EN"
+"http://www.freedesktop.org/standards/dbus/1.0/introspect.dtd">
+<node>
+  <interface name="org.freedesktop.systemd1.Manager">
+    <method name="StartUnit">
+      <arg name="name" type="s" direction="in"/>
+      <arg name="mode" type="s" direction="in"/>
+      <arg name="job" type="o" direction="out"/>
+    </method>

```

```

+ </interface>
+</node>
--- upstart-1.13.2.orig/extra/upstart-event-bridge.c
+++ upstart-1.13.2/extra/upstart-event-bridge.c
@@ -26,6 +26,9
@@
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <unistd.h>

#include <nih/macros.h>
#include <nih/alloc.h>
@@ -42,8 +45,10 @@
#include "dbus/upstart.h"
#include "com.ubuntu.Upstart.h"

#define DBUS_ADDRESS_LOCAL "unix:abstract=/com/ubuntu/upstart/local/bridge"

/* Prototypes for static functions */
+static int systemd_booted (void);
static void upstart_disconnected (DBusConnection *connection);
static void upstart_forward_event (void *data, NihDBusMessage *message,
    const char *path);
@@ -60,6 +65,14 @@
static int daemonise = FALSE;

/**
+ * local:
+ *
+ * Set to TRUE if we should connect to upstart-local-bridge instead of
+ * the system init.
+ */
+static int local = FALSE;
+
+/**
+ * system_upstart:
+ *
+ * Proxy to system Upstart daemon.
@@ -119,9 +132,14 @@
    exit (1);
}

- /* Initialise the connection to system Upstart */
- system_connection = NIH_SHOULD (nih_dbus_bus (DBUS_BUS_SYSTEM,

```

```

upstart_disconnected));
+ local = systemd_booted ();

+ /* Initialise the connection to system Upstart */
+ if (local) {
+   system_connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_LOCAL, upstart_disconnected));
+ } else {
+   system_connection = NIH_SHOULD (nih_dbus_bus (DBUS_BUS_SYSTEM, upstart_disconnected));
+ }
+ if (! system_connection) {
+   NihError *err;

@@ -134,7 +152,7 @@
}

system_upstart = NIH_SHOULD (nih_dbus_proxy_new (NULL, system_connection,
-   DBUS_SERVICE_UPSTART, DBUS_PATH_UPSTART,
+   NULL, DBUS_PATH_UPSTART,
    NULL, NULL));
+ if (! system_upstart) {
+   NihError *err;
@@ -259,6 +277,20 @@
return ret;
}

+static int
+systemd_booted (void)
+{
+   struct stat st;
+
+   if (lstat ("/run/systemd/system/", &st) == 0) {
+     if (S_ISDIR(st.st_mode)) {
+       return TRUE;
+     }
+   }
+
+   return FALSE;
+}

static void
upstart_disconnected (DBusConnection *connection)
{
@@ -293,7 +325,11 @@
nih_assert (event_name != NULL);

/* Build
the new event name */
- NIH_MUST (nih_strcat_sprintf (&new_event_name, NULL, "sys:%s", event_name));

```

```

+ if (local) {
+   new_event_name = NIH_MUST (nih_strdup (NULL, event_name));
+ } else {
+   new_event_name = NIH_MUST (nih_sprintf (NULL, "sys:%s", event_name));
+ }

/* Re-transmit the event */
pending_call = upstart_emit_event (user_upstart,
--- upstart-1.13.2.orig/extra/upstart-local-bridge.c
+++ upstart-1.13.2/extra/upstart-local-bridge.c
@@ -22,10 +22,14 @@
#endif /* HAVE_CONFIG_H */

#include <sys/types.h>
#include <sys/stat.h>
#include <sys/socket.h>
#include <sys/un.h>
#include <sys/types.h>
#include <sys/wait.h>

#include <errno.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <syslog.h>
@@@ -45,24 +49,17 @@

#include <nih-dbus/dbus_connection.h>
#include <nih-dbus/dbus_proxy.h>
#include <nih-dbus/dbus_object.h>

#include "dbus/upstart.h"
#include "com.ubuntu.Upstart.h"
#include "com.ubuntu.Upstart.Job.h"
#include "org.freedesktop.systemd1.h"
#include
"control_com.ubuntu.Upstart.h"

/**
- * Job:
- *
- * @entry: list header,
- * @path: D-Bus path for a job.
- *
- * Representation of an Upstart Job.
- *
- */
-typedef struct job {

```

```

- NihList entry;
- char *path;
-} Job;
#define DBUS_ADDRESS_SYSTEMD "unix:path=/run/systemd/private"
#define DBUS_PATH_SYSTEMD "/org/freedesktop/systemd1"
#define DBUS_SERVICE_SYSTEMD "org.freedesktop.systemd1"
#define DBUS_ADDRESS_LOCAL "unix:abstract=/com/ubuntu/upstart/local/bridge"

/**
 * Socket:
@@ -100,12 +97,14 @@
 struct ucred ucred;
} ClientConnection;

-static void upstart_job_added (void *data, NihDBusMessage *message,
-    const char *job);
-static void upstart_job_removed (void *data, NihDBusMessage *message,
-    const char *job);
static void upstart_connect (void);
-static void upstart_disconnected (DBusConnection *connection);
+static void systemd_connect (void);
+static int systemd_booted (void);
+static int control_server_open
    (void);
+static int control_server_connect (DBusServer *server,
+    DBusConnection *conn);
+static void control_disconnected (DBusConnection *conn);
+static void init_disconnected (DBusConnection *connection);

static Socket *create_socket (void *parent);

@@@ -121,6 +120,8 @@@

static void emit_event (ClientConnection *client, const char *pair, size_t len);

+static void process_event (ClientConnection *client, const char *pair, size_t len);
+
static void signal_handler (void *data, NihSignal *signal);

static void cleanup (void);
@@@ -134,23 +135,39 @@@
static int daemonise = FALSE;

/**
- * jobs:
+ * upstart:
+ *
- * Jobs that we're monitoring.

```

```

+ * Proxy to Upstart daemon.
**/
-static NihHash *jobs = NULL;
+static NihDBusProxy *upstart = NULL;

/**
- * upstart:
+ * systemd:
*

- * Proxy to Upstart daemon.
+ * Proxy to systemd daemon.
**/
-static NihDBusProxy *upstart = NULL;
+static NihDBusProxy *systemd = NULL;
+
+/**
+ * control_server
+ *
+ * D-Bus
server listening for new direct connections.
+ **/
+DBusServer *control_server = NULL;
+
+/**
+ * control_conns:
+ *
+ * Open control connections, including the connection to a D-Bus
+ * bus and any private client connections.
+ **/
+NihList *control_conns = NULL;

/**
* event_name:
*

- * Name of event this bridge emits.
+ * upstart: Name of event this bridge emits.
+ * systmed: Name of target this generator creates.
**/
static char *event_name = NULL;

@@ -202,7 +219,7 @@
{ 0, "daemon", N_("Detach and run in the background"),
  NULL, NULL, &daemonise, NULL },

- { 0, "event", N_("specify name of event to emit on receipt of name=value pair"),
+ { 0, "event", N_("specify name of event to emit / target to generate on receipt of name=value pair"),
  NULL, "EVENT", &event_name, NULL },

```

```

{ 0, "any-user", N_("allow any user to connect"),
@@ -258,7 +275,7 @@

nih_main_init (argv[0]);

- nih_option_set_synopsis (_("Local socket Upstart Bridge"));
+ nih_option_set_synopsis
(_("Local socket Upstart Bridge & systemd generator"));
nih_option_set_help (
_("By default, this bridge does not detach from the "
"console and remains in the foreground. Use the --daemon ")
@@ -273,9 +290,6 @@
exit (1);
}

- /* Allocate jobs hash table */
- jobs = NIH_MUST (nih_hash_string_new (NULL, 0));
-
sock = create_socket (NULL);
if (! sock) {
    nih_fatal ("%s %s",
@@ -286,7 +300,26 @@

    nih_debug ("Connected to socket '%s' on fd %d", socket_name, sock->sock);

- upstart_connect ();
+ if (systemd_booted() == TRUE) {
+     systemd_connect ();
+ } else {
+     upstart_connect ();
+ }
+
+ control_conns = NIH_MUST (nih_list_new (NULL));
+
+ while ((ret = control_server_open ()) < 0) {
+     NihError *err;
+
+     err = nih_error_get ();
+     if (err->number != ENOMEM) {
+         nih_warn ("%s: %s", _("Unable to listen for private"
+ "connections"), err->message);
+         nih_free (err);
+     break;
+
+         }
+     nih_free (err);
+ }

```



```

/* Become daemon */
if (daemonise) {
@@ -326,103 +359,14 @@
return ret;
}

-static void
-upstart_job_added (void      *data,
- NihDBusMessage *message,
- const char     *job_class_path)
-{
- nih_local NihDBusProxy *job_class = NULL;
- nih_local char ***start_on = NULL;
- nih_local char ***stop_on = NULL;
- Job *job;
-
- nih_assert (job_class_path != NULL);
-
- /* Obtain a proxy to the job */
- job_class = nih_dbus_proxy_new (NULL, upstart->connection,
- upstart->name, job_class_path,
- NULL, NULL);
- if (! job_class) {
- NihError *err;
-
- err = nih_error_get ();
- nih_error ("Could not create proxy for job %s: %s",
- job_class_path, err->message);
- nih_free (err);
-
- return;
- }
-
- job_class->auto_start = FALSE;
-
- /* Obtain the start_on and stop_on properties of the job */
- if (job_class_get_start_on_sync (NULL, job_class, &start_on) < 0) {
- NihError *err;
-
- err
- = nih_error_get ();
- nih_error ("Could not obtain job start condition %s: %s",
- job_class_path, err->message);
- nih_free (err);
-
- return;
- }
-

```

```

- if (job_class_get_stop_on_sync (NULL, job_class, &stop_on) < 0) {
-   NihError *err;
-
-   err = nih_error_get ();
-   nih_error ("Could not obtain job stop condition %s: %s",
-     job_class_path, err->message);
-   nih_free (err);
-
-   return;
- }
-
- /* Free any existing record for the job (should never happen,
-  * but worth being safe).
-  */
- job = (Job *)nih_hash_lookup (jobs, job_class_path);
- if (job)
-   nih_free (job);
-
- /* Create new record for the job */
- job = NIH_MUST (nih_new (NULL, Job));
- job->path = NIH_MUST (nih_strdup (job, job_class_path));
-
- nih_list_init (&job->entry);
-
- nih_debug ("Job got added %s", job_class_path);
-
- nih_alloc_set_destructor (job, nih_list_destroy);
-
- /* Add all jobs */
- nih_hash_add (jobs, &job->entry);
-}
-
-static void
-upstart_job_removed (void      *data,
-   NihDBusMessage
-   *message,
-   const char   *job_path)
-{
-   Job *job;
-
-   nih_assert (job_path != NULL);
-
-   job = (Job *)nih_hash_lookup (jobs, job_path);
-   if (job) {
-     nih_debug ("Job went away %s", job_path);
-     nih_free (job);
-   }
-}
-}

```

```

static void
upstart_connect (void)
{
    DBusConnection    *connection;
    - char            **job_class_paths;

    /* Initialise the connection to Upstart */
    - connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_UPSTART, upstart_disconnected));
    + connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_UPSTART, init_disconnected));
    if (! connection) {
        NihError *err;

@@@ -449,59 +393,169 @@@
    }

    nih_debug ("Connected to Upstart");
    +}

    - /* Connect signals to be notified when jobs come and go */
    - if (! nih_dbus_proxy_connect (upstart, &upstart_com_ubuntu_Upstart0_6, "JobAdded",
    -     (NihDBusSignalHandler)upstart_job_added, NULL)) {
    +static void
    +systemd_connect (void)
    +{
    +    DBusConnection    *connection;
    +
    +    /* Initialise the connection
    +    to systemd */
    +    /* /run/systemd/private is supposedly "private" end-point
    +    * which systemctl & libsystemd use */
    +    connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_SYSTEMD, init_disconnected));
    +    if (! connection) {
    +        NihError *err;

        err = nih_error_get ();
    -    nih_fatal ("%s: %s", _("Could not create JobAdded signal connection"),
    +    nih_fatal ("%s: %s", _("Could not connect to systemd"),
        err->message);
        nih_free (err);

        exit (1);
    }

    - if (! nih_dbus_proxy_connect (upstart, &upstart_com_ubuntu_Upstart0_6, "JobRemoved",
    -     (NihDBusSignalHandler)upstart_job_removed, NULL)) {
    + systemd = NIH_SHOULD (nih_dbus_proxy_new (NULL, connection,
    +     NULL, DBUS_PATH_SYSTEMD,

```

```

+     NULL, NULL));
+ if (! systemd) {
+     NihError *err;

+     err = nih_error_get ();
+     nih_fatal ("%s: %s", _("Could not create JobRemoved signal connection"),
+     + nih_fatal ("%s: %s", _("Could not create systemd proxy"),
+         err->message);
+     nih_free (err);

+     exit
+     (1);
+ }

+ /* Request a list of all current jobs */
+ if (upstart_get_all_jobs_sync (NULL, upstart, &job_class_paths) < 0) {
+     NihError *err;
+
+     err = nih_error_get ();
+     nih_fatal ("%s: %s", _("Could not obtain job list"),
+     +     err->message);
+     nih_free (err);
+
+     + FILE *fp = NULL;
+     + nih_local char *template_name = NULL;
+     +
+     + template_name = NIH_MUST (nih_sprintf (NULL, "/run/systemd/system/%s@.target", event_name));
+     +
+     + fp = NIH_SHOULD (fopen(template_name, "we"));
+     + if (!fp) {
+     +     nih_fatal ("%s %s", _("Failed to create target template"),
+     +     +     strerror (errno));
+     +     exit (1);
+     + }
+     + fprintf (fp,
+     + "# Automatically generated by %s\n\n"
+     + "[Unit]\n"
+     + "Description=Local bridge key value pairs\n"
+     + "Documentation=man:%s\n",
+     + program_name, program_name);
+     + fflush (fp);
+     + if (ferror (fp)) {
+     +     nih_fatal ("%s %s", _("Failed to write target template"),
+     +     +     strerror (errno));
+     +     exit (1);
+     + }
+     + fclose (fp);

```

```

- for (char **job_class_path = job_class_paths;
-     job_class_path
-     && *job_class_path; job_class_path++)
- upstart_job_added (NULL, NULL, *job_class_path);
+ nih_debug ("Connected to systemd");
+}
+
+static int
+systemd_booted (void)
+{
+ struct stat st;

- nih_free (job_class_paths);
+ if (lstat ("/run/systemd/system/", &st) == 0) {
+ if (S_ISDIR(st.st_mode)) {
+ return TRUE;
+ }
+ }
+
+ return FALSE;
+ }

static void
-upstart_disconnected (DBusConnection *connection)
+init_disconnected (DBusConnection *connection)
+ {
- nih_fatal (_("Disconnected from Upstart"));
+ nih_fatal (_("Disconnected from init"));
+ nih_main_loop_exit (1);
+ }

/**
+ * control_server_open:
+ *
+ * Open a listening D-Bus server and store it in the control_server global.
+ * New connections are permitted from the root user, and handled
+ * automatically in the main loop.
+ *
+ * Returns: zero on success, negative value on raised error.
+ */
+
+int
+control_server_open (void)
+{
+ nih_assert (control_server == NULL);
+
+ control_server = nih_dbus_server (DBUS_ADDRESS_LOCAL,
+

```

```

    control_server_connect,
+   control_disconnected);
+   if (! control_server)
+   return -1;
+
+   nih_debug("D-Bus server started at address: %s", DBUS_ADDRESS_LOCAL);
+
+   return 0;
+}
+
+/**
+ * control_server_connect:
+ *
+ * Called when a new client connects to our server and is used to register
+ * objects on the new connection.
+ *
+ * Returns: always TRUE.
+ */
+static int
+control_server_connect (DBusServer *server,
+   DBusConnection *conn)
+{
+   nih_assert (server != NULL);
+   nih_assert (server == control_server);
+   nih_assert (conn != NULL);
+   NihListEntry *entry = NULL;
+
+   /* Register objects on the connection. */
+   NIH_MUST (nih_dbus_object_new (NULL, conn, DBUS_PATH_UPSTART,
+       control_interfaces, NULL));
+
+
+   entry = NIH_MUST (nih_list_entry_new (NULL));
+   entry->data = conn;
+   nih_list_add (control_conns, &entry->entry);
+   nih_debug("Connection from private client");
+
+   return TRUE;
+}
+
+/**
+ * control_disconnected:
+ *
+ * This function is
+ * called when the connection to the D-Bus system bus,
+ * or a client connection to our D-Bus server, is dropped and our reference
+ * is about to be list. We clear the connection from our current list
+ * and drop the control_bus global if relevant.

```

```

+ **/
+static void
+control_disconnected (DBusConnection *conn)
+{
+ nih_assert (conn != NULL);
+ /* Remove from the connections list */
+ NIH_LIST_FOREACH_SAFE (control_conns, iter) {
+     NihListEntry *entry = (NihListEntry *)iter;
+
+     if (entry->data == conn)
+         nih_free (entry);
+ }
+}
+
+/**
+ * socket_watcher:
+ *
+ * @sock: Socket,
+ @@ -645,7 +699,7 @@
+     if (used_len < min_len)
+         continue;
+
+ - emit_event (client, pair, used_len);
+ + process_event (client, pair, used_len);
+ }
+
+ /* Consume the entire length */
+ @@ -724,6 +778,8 @@
+ /* Handle abstract names */
+ if (sock->sun_addr.sun_path[0] == '@')
+     sock->sun_addr.sun_path[0] = '\0';
+ else
+ + (void) unlink(sock->sun_addr.sun_path);
+
+ sock->sock = socket (sock->addr.sa_family, SOCK_STREAM, 0);
+ if (sock->sock < 0) {
+ @@ -830,17 +886,102 @@
+ /* Add the name=value pair */
+ NIH_MUST (nih_str_array_addn (&env, NULL, NULL, pair, len));
+
+ - pending_call = upstart_emit_event (upstart,
+ - event_name, env, FALSE,
+ - NULL, emit_event_error, NULL,
+ - NIH_DBUS_TIMEOUT_NEVER);
+ + if (upstart) {
+ + pending_call = upstart_emit_event (upstart,
+ + event_name, env, FALSE,
+ + NULL, emit_event_error, NULL,

```

```

+     NIH_DBUS_TIMEOUT_NEVER);
+
+ if (! pending_call) {
+     NihError *err;
+     err = nih_error_get ();
+     nih_warn ("%s", err->message);
+     nih_free (err);
+ }
+
+ dbus_pending_call_unref (pending_call);
+ }
+
+ NIH_LIST_FOREACH (control_conns, iter) {
+     NihListEntry *entry = (NihListEntry *)iter;
+     DBusConnection *conn = (DBusConnection *)entry->data;
+
+     NIH_ZERO (control_emit_event_emitted (conn, DBUS_PATH_UPSTART,
+         event_name, env));
+ }

- if (! pending_call)
+ {
+ }
+
+static void
+systemd_launch_instance (ClientConnection *client,
+    const char    *pair,
+    size_t        len)
+{
+    nih_local char    *safe_pair = NULL;
+    nih_local char    **key_value = NULL;
+    nih_local char    *group_name = NULL;
+    nih_local char    *unit_name = NULL;
+    nih_local char    *job_name = NULL;
+
+    nih_assert (client);
+    nih_assert (pair);
+    nih_assert (len);
+
+    /* Why is pair not null-terminated?! */
+    safe_pair = NIH_MUST (nih_strndup (NULL, pair, len));
+
+    /* Get key val from the key=val pair */
+    key_value = NIH_MUST (nih_str_split (NULL, safe_pair, "=", TRUE));
+
+    /* Construct systemd event@key=*.target group name */
+    group_name = NIH_MUST (nih_sprintf (NULL, "%s@%s=*.target",
+        event_name, key_value[0]));

```



```

+
+ /* Construct systemd event@key=value.target unit name */
+ unit_name = NIH_MUST (nih_sprintf (NULL, "%s@%s\\x3d%s.target",
+     event_name, key_value[0],
+     key_value[1]));
+
+ /* Stop group */
+ int
+ pid = -1;
+ siginfo_t info;
+ do {
+ pid = fork ();
+ } while (pid < 0);
+
+ if (pid) {
+ info.si_code = 0;
+ info.si_status = 0;
+ if (waitid (P_PID, pid, &info, WEXITED)) {
+ nih_fatal ("%s %s", _("Failed to wait for systemctl"),
+     strerror (errno));
+ }
+ if (info.si_code != CLD_EXITED || info.si_status) {
+     nih_fatal ("Bad systemctl exit code %i and status %i\\n", info.si_code, info.si_status);
+ }
+ } else {
+ /* Create and submit stop state transition, do not wait to complete */
+ execlp ("systemctl", "systemctl", "--no-block", "stop", group_name, (char *)NULL);
+ }
+
+ /* Create and submit start state transition, do not wait to complete */
+ if (systemd_start_unit_sync (NULL, systemd, unit_name, "replace", &job_name)) {
+     NihError *err;
+     err = nih_error_get ();
+     nih_warn ("%s", err->message);
+     nih_free (err);
+ }
+ }
+
+
+ dbus_pending_call_unref (pending_call);
+static void
+process_event (ClientConnection
+    *client,
+    const char    *pair,
+    size_t        len)
+{
+ emit_event (client, pair, len);
+
+

```

```

+ if (systemd) {
+   systemd_launch_instance (client, pair, len);
+ }
+ }
+ }
--- upstart-1.13.2.orig/extra/upstart-udev-bridge.c
+++ upstart-1.13.2/extra/upstart-udev-bridge.c
@@ -69,6 +69,15 @@
static NihDBusProxy *upstart = NULL;

/**
+ * user:
+ *
+ * If TRUE, run in User Session mode connecting to the Session Init
+ * rather than PID 1. In this mode, certain relative paths are also
+ * expanded.
+ */
+static int user = FALSE;
+
+/**
+ * no_strip_udev_data:
+ *
+ * If TRUE, do not modify any udev message data (old behaviour).
@@ -86,6 +95,8 @@
    NULL, NULL, &daemonise, NULL },
    { 0, "no-strip", N_("Do not strip non-printable bytes from udev message data"),
      NULL, NULL, &no_strip_udev_data, NULL },
+   { 0, "user", N_("Connect to user session"),
+     NULL, NULL, &user, NULL },

NIH_OPTION_LAST
};
@@ -97,6 +108,11 @@
{
    char **      args;
    DBusConnection
    *    connection;
+   char *      pidfile_path = NULL;
+   char *      pidfile = NULL;
+   char        *user_session_addr = NULL;
+   nih_local char **  user_session_path = NULL;
+   char *      path_element = NULL;
    struct udev *    udev;
    struct udev_monitor *udev_monitor;
    int             ret;
@@ -113,8 +129,19 @@
    if (! args)
        exit (1);

```

```

+ if (user) {
+   user_session_addr = getenv ("UPSTART_SESSION");
+   if (! user_session_addr) {
+     nih_fatal (_("UPSTART_SESSION isn't set in environment"));
+     exit (EXIT_FAILURE);
+   }
+ }
+
+ /* Initialise the connection to Upstart */
- connection = NIH_SHOULD (nih_dbus_connect (DBUS_ADDRESS_UPSTART, upstart_disconnected));
+ connection = NIH_SHOULD (nih_dbus_connect (user
+   ? user_session_addr
+   : DBUS_ADDRESS_UPSTART,
+   upstart_disconnected));
if (! connection) {
  NihError *err;

@@@ -153,6 +180,35 @@@

/* Become daemon */
if (daemonise) {
+ /* Deal with the pidfile location
+   when becoming a daemon.
+   * We need to be able to run one bridge per upstart daemon.
+   * Store the PID file in XDG_RUNTIME_DIR or HOME and include the pid of
+   * the Upstart instance (last part of the DBus path) in the filename.
+   */
+
+ if (user) {
+   /* Extract PID from UPSTART_SESSION */
+   user_session_path = nih_str_split (NULL, user_session_addr, "/", TRUE);
+
+   for (int i = 0; user_session_path && user_session_path[i]; i++)
+     path_element = user_session_path[i];
+
+   if (! path_element) {
+     nih_fatal (_("Invalid value for UPSTART_SESSION"));
+     exit (1);
+   }
+
+   pidfile_path = getenv ("XDG_RUNTIME_DIR");
+   if (!pidfile_path)
+     pidfile_path = getenv ("HOME");
+
+   if (pidfile_path) {
+     NIH_MUST (nih_strcat_sprintf (&pidfile, NULL, "%s/%s.%s.pid",
+       pidfile_path, program_invocation_short_name, path_element));
+     nih_main_set_pidfile (pidfile);

```

```

+ }
+ }
+
+ if (nih_main_daemonise () < 0) {
+     NihError *err;

@@ -163,10 +219,12
@@

    exit (1);
}
-
- /* Send all logging output to syslog */
- openlog (program_name, LOG_PID, LOG_DAEMON);
- nih_log_set_logger (nih_logger_syslog);
+
+ if (!user) {
+     /* Send all logging output to syslog for system bridge */
+     openlog (program_name, LOG_PID, LOG_DAEMON);
+     nih_log_set_logger (nih_logger_syslog);
+ }
+ }

/* Handle TERM and INT signals gracefully */
--- upstart-1.13.2.orig/init/Makefile.am
+++ upstart-1.13.2/init/Makefile.am
@@ -8,6 +8,7 @@
$(NIH_CFLAGS) \
$(NIH_DBUS_CFLAGS) \
$(DBUS_CFLAGS) \
+ $(SELINUX_CFLAGS) \
$(JSON_CFLAGS) \
$(CGMANAGER_CFLAGS)
AM_LIBADD = $(CGMANAGER_LIBS) $(NIH_LIBS) $(NIH_DBUS_LIBS)
@@ -73,6 +74,7 @@
$(NIH_LIBS) \
$(NIH_DBUS_LIBS) \
$(DBUS_LIBS) \
+ $(SELINUX_LIBS) \
$(JSON_LIBS) \
$(CGMANAGER_LIBS) \
-lrt
@@ -204,6 +206,7 @@

test_conf_preload.sh$(EXEEXT): tests/test_conf_preload.sh.in Makefile test_conf
sed -e 's|[@]abs_buildddir[@]|$(abs_buildddir)|g' \
+ -e 's|[@]top_buildddir[@]|$(top_buildddir)|g'

```

```

\
-e 's|[@]inotify_preload_library[@]|$(check_LTLIBRARIES)|g'\
$< > $@
chmod +x $@
--- upstart-1.13.2.orig/init/apparmor.c
+++ upstart-1.13.2/init/apparmor.c
@@ -111,6 +111,18 @@
    return FALSE;
}

+ /* Do not load if running in a container.
+  * This is a distro-specific patch.
+  */
+ if (stat ("/run/container_type", &statbuf) == 0)
+   return FALSE;
+
+ /* Do not load if running in a Ubuntu live CD.
+  * This is a distro-specific patch.
+  */
+ if (stat ("/rofs/etc/apparmor.d", &statbuf) == 0)
+   return FALSE;
+
return TRUE;
}

--- upstart-1.13.2.orig/init/job_process.c
+++ upstart-1.13.2/init/job_process.c
@@ -2,7 +2,7 @@
*
* job_process.c - job process handling
*
- * Copyright © 2011 Canonical Ltd.
+ * Copyright 2011 Canonical Ltd.
* Author: Scott James Remnant <scott@netsplit.com>.
*
* This program is free software; you can redistribute it and/or modify
@@ -1766,10 +1766,18 @@
/* We should always fail the job if the security profile
   * failed to load
   */
+
+ /* Disabled for now to emulate current Ubuntu behaviour
+  * in /lib/init/apparmor-profile-load to work around bug
+  * LP: #1058356
+  */
+
if (status) {
    failed = TRUE;
    stop = TRUE;

```

```

}
+
+ */
+
break;
case PROCESS_PRE_START:
    nih_assert (job->state == JOB_PRE_START);
--- upstart-1.13.2.orig/init/man/init.5
+++ upstart-1.13.2/init/man/init.5
@@ -1420,4 +1420,5 @@
.BR initctl (8),
.BR prctl (2),
.BR pty (7),
-.BR sh (1).
+.BR sh (1),
+.BR upstart-events (7).
--- upstart-1.13.2.orig/init/tests/test_conf_preload.sh.in
+++ upstart-1.13.2/init/tests/test_conf_preload.sh.in
@@ -33,6 +33,9 @@

build_dir="@abs_builddir@"
test_path="$build_dir/$test_name"
+libtool="@top_builddir@/libtool"
+
+[-e "$libtool" ] || die "cannot find generated libtool binary"

preload_library="$build_dir/@inotify_preload_library@"

@@ -44,7 +47,7 @@
# Install the preload library to a temporary location since we need the
# full path to the shared library
for LD_PRELOAD.
install_dir=$(mktemp -d --tmpdir="$builddir")
-libtool --mode=install install \
+"$libtool" --mode=install install \
    "$preload_library" "$install_dir" >/dev/null 2>&1

installed_lib=$(basename "$preload_library")
@@ -60,5 +63,5 @@
LD_PRELOAD=$installed_so $test_path

# clean up
-libtool --mode=uninstall \
+"$libtool" --mode=uninstall \
    rm "$install_dir/$installed_lib" >/dev/null 2>&1
--- upstart-1.13.2.orig/init/tests/test_job_process.c
+++ upstart-1.13.2/init/tests/test_job_process.c
@@ -8231,6 +8231,7 @@

```

```

class->expect = EXPECT_STOP;

TEST_ALLOC_FAIL {
+ pid_t tmp_pid;
  TEST_ALLOC_SAFE {
    job = job_new (class, "");

@@ -8244,7 +8245,10 @@
    exit (0);
  }

- assert0 (waitid (P_PID, pid, &info, WSTOPPED | WNOWAIT));
+ tmp_pid = waitid (P_PID, pid, &info, WSTOPPED | WNOWAIT);
+ if (tmp_pid < 0)
+   printf("waitid failed: %m");
+ assert0 (tmp_pid);

  job->goal = JOB_START;
  job->state = JOB_SPAWNED;
--- upstart-1.13.2.orig/util/telinit.c
+++
  upstart-1.13.2/util/telinit.c
@@ -160,27 +160,73 @@
  int
  restart_upstart (void)
  {
- nih_local NihDBusProxy *upstart = NULL;
- DBusPendingCall      *ret;
+ nih_local NihDBusProxy *upstart = NULL;
+ NihError               *err;
+ int                    ret;

  upstart = upstart_open (NULL);
  if (! upstart)
    return -1;

- /* Fire and forget:
+ /* Fire and forget:
+ /* Ask Upstart to restart itself.
+ *
+ * Ask Upstart to restart itself using the async interface to
+ * avoid the client-side complaining if and when it detects that
+ * Upstart has severed all connections to perform the re-exec.
+ * Since it is not possible to serialise a D-Bus connection,
+ * Upstart is forced to sever all D-Bus client connections,
+ * including this one.
+ *
+ * Further, since the user expects telinit to block _until the
+ * re-exec has finished and Upstart is accepting connections

```

```

+ * once again_, the only solution is to wait for the forced
+ * disconnect, then poll until it is possible to
  create a new
+ * connection.
+ *
+ * Note that we don't (can't) care about the return code since
+ * it's not reliable:
+ *
+ * - either the re-exec request completed and D-Bus returned zero
+ * before Upstart started the re-exec.
+ *
+ * - or the re-exec request completed but upstart started the
+ * re-exec (severing all D-Bus connections) before D-Bus got a
+ * chance to finish cleanly meaning we receive a return of -1.
+ *
+ * We cannot know exactly what happened so have to allow for
+ * both scenarios. Note the implicit assumption that the re-exec
+ * request itself was accepted. If this assumption is incorrect
+ * (should not be possible), the worst case scenario is that
+ * upstart does not re-exec and then we quickly drop out of the
+ * reconnect block since it never went offline.
  */
- ret = upstart_restart (upstart, NULL, NULL, NULL, 0);
- dbus_connection_flush(upstart->connection);
+ ret = upstart_restart_sync (NULL, upstart);
+
+ if (ret < 0) {
+   err
+   = nih_error_get ();
+   nih_free (err);
+ }

- /* We don't care about the return code, but we have to keep
- * the compiler happy.
+ nih_free (upstart);
+
+ nih_debug ("Waiting for upstart to finish re-exec");
+
+ /* We believe Upstart is now in the process of
+ * re-exec'ing so attempt forever to reconnect.
+ *
+ * This sounds dangerous but there is no other option,
+ * and a connection must be possible unless the system
+ * is completely broken.
  */
- if (ret != (DBusPendingCall *)TRUE)
-   return 0;
+ while (TRUE) {

```



```

+
+ upstart = upstart_open (NULL);
+ if (upstart)
+ break;
+
+ err = nih_error_get ();
+ nih_free (err);
+
+ /* Avoid DoS'ing the system whilst we wait */
+ usleep (100000);
+ }

return 0;
}

```

Found in path(s):

* /upstart-1-13-2-0ubuntu13-diff-1-gz/upstart_1.13.2-0ubuntu13.diff-1

1.264 newlib 4.1.0

1.264.1 Available under license :

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```
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```

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1.265 sysv-init 2.86-1

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The of the start-stop-daemon

- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.266 sysv-init 2.88

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1.268 ustr 1.0.4

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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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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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rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.270 syslogd 1.5.0

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1.271 systemtap 2.5

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1.272 u-boot 2017.01

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/* A Bison parser, made by GNU Bison 2.4.1. */

/* Skeleton implementation for Bison's Yacc-like parsers in C

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/* C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser. */

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There are some unavoidable exceptions within include files to
define necessary library
symbols; they are noted "INFRINGEMENTS ON
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Version 3, 29 June 2007

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/*
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* GSS-API Programming Guide
* Part No: 816-1331-11
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
 UCSD
 R. Canetti
 IBM
 February 1997

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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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-- Wolfgang Denk

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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

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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

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1.278 libsemanage-common 2.3

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1.279 erlang-otp 7.3

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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[Misc C library code]

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 */
```

[zlib]

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

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

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

[fp16]

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[dialyzer]

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[edoc,
syntax_tools]

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[leex]

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*/

Found in path(s):

* /dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_parse.h

* /dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_common.h

*

/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_gen.h

1.283 go-shellwords 1.0.12

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1.284 c-ares 1.14.0

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1.285 util-linux 2.35.1

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```
#!/usr/bin/env bash
```

```
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
```

```
# This script will read the license file into memory, strip out the copyright, and then
```

```
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
```

```
set -e
```

```
calculate_md5_sum() {
```

```
    local FILE="$1"
```

```
    # Read the contents of the file into a variable
```

```
    local raw_license_text=$(<"$FILE")
```

```
    # Convert to lowercase
```

```
    local lowercase_license_text="{raw_license_text,,}"
```

```
    # Remove anything before the beginning of the license
```

```
    local stripped_license_text=$(awk '/permission is hereby granted/{p=1} p' <<< "$lowercase_license_text")
```

```
    # Replace line breaks (Windows or Linux) with a single space
```

```
    local replaced_linebreaks=$(tr "r\n" ' ' <<< "$stripped_license_text")
```

```
    # Replace multiple spaces with a single space
```

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

```
    # Strip away any non-printable, non-whitespace characters
```

```
    local clean_unprintable_license_text=$(tr
```

```
-cd '[:print:][:space:]' <<< "$normalized_license_text")
```

```
    # Remove punctuation and special characters
```

```
    local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')
```

```
    # Calculate the MD5 sum of the cleaned license text
```

```
    local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
```

```
    # Output the MD5 sum
```

```
    echo "$MD5SUM"
```

```
}
```

```
# Check if the FILE argument is provided
```

```
if [ -z "$1" ]; then
```

```
    echo "Please provide a FILE as an argument."
```

```
    exit 1
```

```
fi
```

```
# Invoke the function with the provided FILE argument
```

```
calculate_md5_sum "$1"
```

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Version 3, 29 June 2007

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The

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1.286 e2fsprogs 1.43

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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#

This 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) \$(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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Theodore Ts'o
23-June-2007

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That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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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

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

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1.287 tftp-hpa 5.2

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- */

Found

in path(s):

- * /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftpd/tftpd.c
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Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.c
*
/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/main.c
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.c
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```
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* Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.h
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/misc.c
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.c
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}

mkdir -p \${RPM_BUILD_ROOT}%{_bindir}

mkdir -p \${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

mkdir -p \${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=\${RPM_BUILD_ROOT} \

SBINDIR=%{_sbindir} MANDIR=%{_mandir} \

install

install -m755 -d \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server

/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server

if [\$1 = 0]; then

/sbin/service xinetd reload > /dev/null 2>&1 || :

fi

%clean

rm -rf \${RPM_BUILD_ROOT}

%files

%defattr(-,root,root)

%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun
21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29
- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild
- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)
- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.
- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one
- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x
- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 - update
 - to tftp-hpa-0.16
- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs
- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)
 - added description for "-l" to the man-page
- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),
- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000
 - Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
 - change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).

- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
 - man pages are compressed
 - fix description and summary

- * Tue
 - Jan 4 2000 Bill Nottingham <notting@redhat.com>
 - split client and server

- * Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.
- * Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.
- * Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)
- * Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)
- * Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.
- * Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root
- * Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr
- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure
- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec

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

```

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*
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* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */

```

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/config.h

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

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1
License: BSD
Group: Applications/Internet
Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}
mkdir -p \${RPM_BUILD_ROOT}%{_bindir}
mkdir -p \${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p \${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=\${RPM_BUILD_ROOT} \
SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install

install -m755 -d \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

```

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

```

- * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
 - Update to 0.32

- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
 - Fix #55789
 - Update to 0.30

- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
 - Try applying HJ's patch from #65476

- *
 - Fri Jun 21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)

- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.

- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one

- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 -
 - update to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)
 - added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
 - correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
 - change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>

- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>

- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>

- man pages are compressed

- fix description and summary

*

Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>

- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>

- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>

- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec.in

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

/* ----- *

*

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*


```

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*
* ----- */

```

Found in path(s):

```

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.h
No license file was found, but licenses were detected in source scan.

```

```

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*
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* http://www.openbsd.org/.
*
* ----- */

```

Found in path(s):

```

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.c
* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.h
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Found in path(s):

```

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.8.in
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Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.1.in

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Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/MCONFIG.in

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Found in path(s):

* /tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.h
*
/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/extern.h

1.288 dnsmasq 2.83

1.288.1 Available under license :

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```
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```

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```
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```

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

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

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1.294 python 3.8.2

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)

2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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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
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
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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```
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```
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```

<signature of Ty Coon>, 1 April 1989

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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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```

1.299 bluez 4.101

1.299.1 Available under license :

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Version 2.1, February 1999

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

All

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

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Index: debug.c

```
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+       if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+           x86emu_dump_xregs();
+       } else {
+           x86emu_dump_regs();
+       }
        if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
            printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
        for (i=0; i< M.x86.enc_pos; i++) {
            sprintf(buf1+2*i, "%02x", fetch_data_byte_abs(s,o+i));
        }
-       printk("%-20s", buf1);
+       printk("%-20s ", buf1);
    }
}
```

static void print_decoded_instruction (void)

Index: ops2.c

```
=====
RCS file:
/cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
```

```

+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
    target += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", target);
    TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
+       M.x86.R_IP = (u16)target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/******
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODE_PRINTF("BSWAP\t");
+   switch (op2) {
+       case 0xc8:
+           DECODE_PRINTF("EAX\n");
+           M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+           break;
+       case 0xc9:
+           DECODE_PRINTF("ECX\n");
+           M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+           break;
+       case 0xca:
+           DECODE_PRINTF("EDX\n");
+           M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+           break;

```

```

+   case 0xcb:
+       DECODE_PRINTF("EBX\n");
+       M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+       break;
+   case 0xcc:
+       DECODE_PRINTF("ESP\n");
+       M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+       break;
+   case 0xcd:
+       DECODE_PRINTF("EBP\n");
+       M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+       break;
+   case 0xce:
+       DECODE_PRINTF("ESI\n");
+       M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+       break;
+   case 0xcf:
+       DECODE_PRINTF("EDI\n");
+       M.x86.R_EDI
+       = x86emu_bswap(M.x86.R_EDI);
+       break;
+   }
+   TRACE_AND_STEP();
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+ }
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,

```

```
/* 0xd1 */ x86emuOp2_illegal_op,
```

Index:

ops.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

retrieving revision 1.1

diff -u -u -r1.1 ops.c

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ ops.c 20 Mar 2008 16:52:00 -0000

@@ -1061,7 +1061,11 @@

imm = (s8)fetch_byte_imm();

DECODE_PRINTF2("PUSH\t%d\n", imm);

TRACE_AND_STEP();

- push_word(imm);

+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {

+ push_long(imm);

+ } else {

+ push_word(imm);

+ }

DECODE_CLEAR_SEGOVR();

END_OF_INSTR();

}

@@ -1256,8 +1260,10 @@

target = (u16)(M.x86.R_IP + (s16)offset);

DECODE_PRINTF2("%x\n", target);

TRACE_AND_STEP();

- if (cond)

+ if (cond) {

 M.x86.R_IP = target;

+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");

+ }

DECODE_CLEAR_SEGOVR();

END_OF_INSTR();

}

@@ -2516,9 +2522,11 @@

count = 1;

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))

{

 /* dont care whether REPE or REPNE */

- /* move them until CX is ZERO. */

- count = M.x86.R_CX;

+ /* move them until (E)CX is ZERO. */

+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;

 M.x86.R_CX = 0;

+ if (M.x86.mode & SYSMODE_32BIT_REP)

+ M.x86.R_ECX = 0;

 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

}


```

        while (count--) {
@@ -2526,6 +2534,8 @@
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
+         if (M.x86.intr & INTR_HALTED)
+             break;
        }
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
@@ -2559,9 +2569,11 @@
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
-         /* move them until CX is ZERO. */
-         count = M.x86.R_CX;
+         /* move them until (E)CX is ZERO. */
+         count = (M.x86.mode
& SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
            M.x86.R_CX = 0;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX = 0;
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
        while (count--) {
@@ -2574,6 +2586,8 @@
        }
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+         if (M.x86.intr & INTR_HALTED)
+             break;
        }
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
@@ -2598,16 +2612,21 @@

        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* REPE */
-         /* move them until CX is ZERO. */
-         while (M.x86.R_CX != 0) {
+         /* move them until (E)CX is ZERO. */
+         while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+

```

```

        M.x86.R_ECX -= 1;
+       else
+       M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+       if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES,
M.x86.R_DI);
@@ -2655,11 +2674,16 @@
                val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);
            }
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -= 1;
+       else
+       M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+       if (M.x86.intr & INTR_HALTED)
+       break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {

```

```

+   /*
move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX = 0;

        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
        store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
    }
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);

```

```

-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
+     if (M.x86.intr & INTR_HALTED)
+
        break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
    REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)

```

```

+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
+         M.x86.R_DI += inc;
+         if (ACCESS_FLAG(F_ZF) == 0)
+             break;
+         if (M.x86.intr & INTR_HALTED)
+             break;
+     }
+     M.x86.mode &= ~SYSMODE_PREFIX_REPE;
+ } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
+     /* REPNE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
+     M.x86.R_DI += inc;
+     if (ACCESS_FLAG(F_ZF))
+         break;      /* zero flag set means equal */
+     if (M.x86.intr & INTR_HALTED)
+         break;
+     }
+     M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
+ } else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-     /* move them until CX is ZERO. */
-     while (M.x86.R_CX != 0) {
+     /* move them until (E)CX is ZERO. */
+     while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
val);
@@ -2960,16 +3012,21 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
        }

```

```

-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
val);
@@ -2977,10 +3034,15 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
        }
-     M.x86.R_CX -= 1;
+     if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX -= 1;
+     else
+         M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;

```

```

    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
@@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETFt");
    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
```

```
0
```

```
+# define DEBUG_TRACEJMPREGS() 0
```

```
# define DEBUG_SYS()         0
```

```
# define DEBUG_MEM_TRACE()   0
```

```
# define DEBUG_IO_TRACE()    0
```

```
@@ -169,14 +171,20 @@
```

```

x86emu_dump_regs();
if (DEBUG_TRACECALL())
    printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())
    x86emu_dump_regs();
if (DEBUG_TRACECALL())
- printk("%04x:%04x: %s\n",u,v,n);
+ printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+ if (DEBUG_TRACEJMPREGS()) \
+     x86emu_dump_regs(); \
+ if (DEBUG_TRACEJMP()) \
+     printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200
#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS | \
    SYSMODE_SEGOVR_SS | \
    SYSMODE_PREFIX_DATA | \
-    SYSMODE_PREFIX_ADDR)
+    SYSMODE_PREFIX_ADDR | \

```

```

+   SYSMODE_32BIT_REP)

#define INTR_SYNCH      0x1
#define INTR_ASYNCH     0x2
@@ -274,9 +278,9 @@
    */
    u32                mode;
    volatile int        intr; /* mask of pending interrupts */
- int                  debug;
+ volatile int          debug;
#ifdef DEBUG
- int                  check;
+ int                    check;
    u16                 saved_ip;
    u16                 saved_cs;
    int                  enc_pos;
Index: include/x86emu/x86emu.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
-0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@@ -189,6 +181,8 @@@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F    0x010000
+#define DEBUG_TRACEJMP_F     0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F           (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@@ -200,5 +194,4 @@@
#ifdef __cplusplus
} /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

```

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Version 2.1, February 1999

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John R. Hauser
2018 January 20

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Key Dates

* August 3, 2017

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

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

* April 9, 2019

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Contributions.txt: TianoCore Contribution Agreement 1.1

=====
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=====

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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.
5. It is preferred that contributions are submitted using the same copyright license as the base project. When

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

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

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

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

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

```
Full-commit-message
```

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

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

Patch content inline or attached

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

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

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

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

- * "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than

'edk2'. For example 'edk2-BuildSpecification' or 'staging'.

- * "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- * "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- * "Brief-single-line-summary" is a short summary of the change.
- * The entire first line should be less than ~70 characters.
- * "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- * "Contributed-under" explicitly states that the

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made under the terms of the contribution agreement. This agreement is included below in this document.

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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,

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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.
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    =====
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* August 3, 2017

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

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

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

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

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

```
Full-commit-message
```

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

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

Patch content inline or attached

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

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

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

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

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

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

- * "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- * "Brief-single-line-summary" is a short summary of the change.
- * The entire first line should be less than ~70 characters.
- * "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
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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

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For example: Contributed-under: TianoCore Contribution Agreement 1.0

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: [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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John R. Hauser
2018 January 20

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{ TARGET_FREEBSD_NR__break, "break", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR__chmod, "chmod", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__close, "close", "%s(%d)", NULL,
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NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_get_file,
  "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
  NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL,
  NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
  "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },

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{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid,
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{ 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 },
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{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen,
  "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL

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},
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil,
  "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ 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 },
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{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_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 },

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{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setregid,
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{ 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_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
  %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
  NULL, NULL },
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John R. Hauser
2018 January 20

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1.303 vim 6.1

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```
/* vi:set ts=8 sts=4 sw=4:
```

```
*
```

```
* CSCOPE support for Vim added by Andy Kahn <kahn@zk3.dec.com>
```

```
*
```

```
* The basic idea/structure of cscope for Vim was borrowed from Nvi.
```

```
* There might be a few lines of code that look similar to what Nvi
```

```
* has. If this is a problem and requires inclusion of the annoying
```

```
* BSD license, then sue me; I'm not worth much anyway.
```

```
*/
```

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runtime/doc/uganda.nsis.txt: runtime/doc/uganda.txt

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```

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Found in path(s):

*

/vim-6-1-405-src2-tar-gz/vim61/src/pty.c

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

/*

* PRIVATE: cs_create_connection

*

* This piece of code was taken/adapted from nvi. do we need to add

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*/

Found in path(s):

* /vim-6-1-405-src2-tar-gz/vim61/src/if_cscope.c

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* /vim-6-1-405-src2-tar-gz/vim61/src/gui_at_sb.h

1.304 socat 1.7.2.4

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Written by: Philip Hazel
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1.312 pcre 8.35

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Written by: Philip Hazel
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Cambridge, England.

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1.313 libcgrou 0.41

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1.314 simplejson 2.2.1

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary.

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<<http://www.gnu.org/licenses/>>.

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<<http://www.gnu.org/philosophy/why-not-lgpl.html>>.

1.316 libstdl 1.2.15

1.316.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

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

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

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

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

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

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

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

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

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

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

"Source code" for a work means the preferred form of the work for

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

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

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

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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 compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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Version 2.1, February 1999

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Preamble

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

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

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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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.

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

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October 28, 1997

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Sam Lantinga (slouken@libsdl.org)

1.317 minicom 2.7

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```
Modemu Version 0.0.1
=====
```

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1.318 pam 1.1.6

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1.319 zip 3

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1.320 mini-xml 2.9

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

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

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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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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.

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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this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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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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That's all there is to it!

1.321 gawk 4.1.1

1.321.1 Available under license :

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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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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

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

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

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

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

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

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry

Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
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Brown, Jerry
Burr, Michael E
Burton, Ross
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Calvin, Gary
Campbell, Aaron
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Cheloha, Scott
ek, Vtislav
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Corzine, Deven T.
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Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
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Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
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Holloway, Nick
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Hutchings, Ben
Irrgang, Eric
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Jackson, John R.
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Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
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Klyachkin, Andrey
Knoble, Jim
Knox, Tim
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Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbess, 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
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Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
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Peschel, Aaron
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Roy, Alain
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Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
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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
Blattermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
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Chornoivan, Yuri
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Garca-Fontes, Walter
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Yang, Boyuan

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

Shield logo: Badger, Trent
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1.324 go-codec 1.2.12

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1.326 zlib 1.2.3

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1.327 zlib 1.2.8

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1.328 zlib 1.1.3

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* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/Adler32.java

* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/Inflate.java

* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/ZStream.java

* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/Deflate.java

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```
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/ZOutputStream.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/GZIPInputStream.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/DeflaterOutputStream.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/JZlib.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/InfBlocks.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/InflaterInputStream.java
*
```

```
/jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/GZIPException.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/Inflater.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/ZInputStream.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/GZIPOutputStream.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/CRC32.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/Checksum.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/Deflater.java
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```
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```

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```
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/InfTree.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/InfCodes.java
```

* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/ZStreamException.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/StaticTree.java
* /jzlib-1-1-4-sources-4-jar/bayern/steinbrecher/jzlib/Tree.java

1.330 ecdsa 0.15

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1.331 lua-cjson 2.1.0

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1.332 **streadway-amqp 1.0.0**

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Go support for Protocol Buffers - Google's data interchange format

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1.334 libtomcrypt 1.17

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1.337 shadow 0.1

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1.339 jinja 2.11.3

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)
```

```
setup(
```

```
    name="Jinja2",
```

```
    version=version,
```

```
    url="https://palletsprojects.com/p/jinja/",
```

```
    project_urls={
```

```
        "Documentation": "https://jinja.palletsprojects.com/",
```

```
        "Code": "https://github.com/pallets/jinja",
```

```
        "Issue tracker": "https://github.com/pallets/jinja/issues",
```

```
    },
```

```
    license="BSD-3-Clause",
```

```
    author="Armin Ronacher",
```

```
    author_email="armin.ronacher@active-4.com",
```

```
    maintainer="Pallets",
```

```
    maintainer_email="contact@palletsprojects.com",
```

```
    description="A very fast and expressive template engine.",
```

```
    long_description=readme,
```

```
    classifiers=[
```

```
        "Development Status
```

```
:: 5 - Production/Stable",
```

```
        "Environment :: Web Environment",
```

```
        "Intended Audience :: Developers",
```

```
        "License :: OSI Approved :: BSD License",
```



```

"Operating System :: OS Independent",
"Programming Language :: Python",
"Programming Language :: Python :: 2",
"Programming Language :: Python :: 2.7",
"Programming Language :: Python :: 3",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

```

Found in path(s):

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1.340 libusb-compat 1.0.19

1.340.1 Available under license :

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Version 2.1, February 1999

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1.341 edk2 202405

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Key Dates

* 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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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 =

=====

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

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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.

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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.

- * "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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1.342 packaging 20.4

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1.343 sepolicy 1.1

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1.348 smart 1.4.1

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

The hypothetical commands

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```
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```

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

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1.349 iniparse 0.3.2

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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 from	Derived	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

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1.350 python-urlgrabber 3.9.1

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1.361 sg3-utils 1.4.2

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