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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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*/
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1.4 packaging 16.8

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1.5 httpcomponents-core 4.4.10

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/*

* hash.c: chained hash tables

*

* Reference: Your favorite introductory book on algorithms

*

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/***

*

* Id

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Finally, every program is threatened constantly by software patents.

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

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.13 sysv-init 2.78

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--- sysvinit-2.78/src/last.c.orig Sun May 27 18:51:14 2001
+++ sysvinit-2.78/src/last.c Wed Jun 13 22:04:25 2001
@@ -15,6 +15,10 @@
 * modify it under the terms of the GNU General Public License
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 * 2 of the License, or (at your option) any later version.
+ *
+ * Modified: 29 May 2001 Chris Wolf:
+ * Indicate entries without logout records, as gone, instead
+ * of logged in.
 */

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

/* Global variables */

```
  int maxrecs = 0; /* Maximum number of records to list. */
@@ -389,6 +394,11 @@
  sprintf(logouttime, "  still");
  sprintf(length, "logged in");
  break;
+ case R_PHANTOM:
+  length[0] = 0;
+  sprintf(logouttime, "  gone");
+  sprintf(length, "- no logout");
+  break;
 case R_REBOOT:
  logouttime[0] = 0;      /* Print machine uptime */
  break;
@@ -690,21 +701,28 @@
   R_NORMAL);
   c = 1;
   }
+
   if (p->next) p->next->prev = p->prev;
   if (p->prev)
    p->prev->next = p->next;
   else
    utmplist = p->next;
+
   free(p);
   }
  }
  /*
-  * Not found? Then crashed, down
-  * or still logged in
+  * Not found? Then crashed, down, still logged in,
+  * or just missing logout record.
   */
  if (c == 0) {
-   if (lastboot == 0)
-    quit = list(&ut, time(NULL), R_NOW);
+   if (lastboot == 0) {
+    /* check for process existence to see if really still logged in */
+    if (kill(ut.ut_pid, 0) && errno == ESRCH)
+     quit = list(&ut, time(NULL), R_PHANTOM);
+    else
+     quit = list(&ut, time(NULL), R_NOW);
+   }
   else
    quit = list(&ut, lastboot, whydown);
  }
```

Found in path(s):

* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78-lastgone.patch

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

```
/*
* mesg.c The "mesg" utility. Gives / restrict access to
*  your terminal by others.
*
* Usage: mesg [y|n].
*  Without arguments prints out the current settings.
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1998 Miquel van Smoorenburg.
*
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*  2 of the License, or (at your option) any later version.
*/
```

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/mesg.c

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

```
/*
* utmpdump Simple program to dump UTMP and WTMP files in
*  raw format, so they can be examined.
*
* Version: @(#)utmpdump.c  13-Aug-1996  1.00  miquels@cistron.nl
*
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*/
```

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/obsolete/utmpdump.c.OLD

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

```
/*
* shutdown.c Shut the system down.
*
```

```
* Usage: shutdown [-krhfnc] time [warning message]
*    -k: don't really shutdown, only warn.
*    -r: reboot after shutdown.
*    -h: halt after shutdown.
*    -f: do a 'fast' reboot (skip fsck).
*    -F: Force fsck on reboot.
*    -n: do not go through init but do it ourselves.
*    -c: cancel an already running shutdown.
*    -t secs: delay between SIGTERM and SIGKILL for init.
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: @(#)shutdown  2.78  13-Nov-1999  miquels@cistron.nl
*
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*/
```

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-
a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/shutdown.c
No license file was found, but licenses were detected in source scan.

```
/*
* powerd Monitor the DCD line of a serial port connected to
*  an UPS. If the power goes down, notify init.
*  If the power comes up again, notify init again.
*  As long as the power is OK, the DCD line should be
*  "HIGH". When the power fails, DCD should go "LOW".
*  Powerd keeps DTR high so that you can connect
*  DCD and DTR with a resistor of 10 Kilo Ohm and let the
*  UPS or some relais pull the DCD line to ground.
*  You also need to connect DTR and DSR together. This
*  way, powerd can check now and then if DSR is high
*  so it knows the UPS is connected!!
*
* Usage: powerd /dev/cua4 (or any other serial device).
*
* Author: Miquel van Smoorenburg, <miquels@drinkel.cistron.nl>.
*
* Version: 1.31,  29-Feb-1996.
*
*  This program was originally written for my employer,
```

```
*   ** Cistron Electronics **
* who has given kind permission to release this program
* for general puppose.
*
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*/
```

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/obsolete/powerd.c
No license file was found, but licenses were detected in source scan.

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

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

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

Init is Copyright (C) Miquel van Smoorenburg

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

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-
a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/debian/README
No license file was found, but licenses were detected in source scan.

```
/*
* utmpdump Simple program to dump UTMP and WTMP files in
*  raw format, so they can be examined.
*
* Author: Miquel van Smoorenburg, <miquels@cistron.nl>
*          Danek Duvall <duvall@alumni.princeton.edu>
* Date: 20-Dec-1998
* Version: 2.0
*
*  This file is part of the sysvinit suite,
*  Copyright 1991-1995 Miquel van Smoorenburg.
*
*  Additional Copyright on this file 1998 Danek Duvall.
*
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*  modify it under the terms of the GNU General Public License
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*  2 of the License, or (at your option) any later version.
*/
```

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-
a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/utmpdump.c
No license file was found, but licenses were detected in source scan.

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

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

The original announcement follows:

From: Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>
Message-Id: <199606060324.FAA19493@i17linuxb.ists.pwr.wroc.pl>

Subject: Fast start-stop-daemon in C
To: debian-devel@lists.debian.org
Date: Thu, 6 Jun 1996 05:24:18 +0200 (MET DST)

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

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

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

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

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

Have fun,

Marek

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-
a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/contrib/start-stop-daemon.README
No license file was found, but licenses were detected in source scan.

```
/*
* paths.h Paths of files that init and related utilities need.
*
* Version: @(#) paths.h 1.71 28-Dec-1995
*
* Author: Miquel van Smoorenburg, <miquels@cistron.nl>
*
* This file is part of the sysvinit suite,
* Copyright 1991-1997 Miquel van Smoorenburg.
*
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* modify it under the terms of the GNU General Public License
```

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

Found in path(s):

* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-
a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/paths.h

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

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

Found in path(s):

* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-
a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/last.c

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

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

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

*/

Found in path(s):

* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/bootlogd.c

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


```
--- sysvinit-2.77/src/md5.c.be Fri Aug 20 14:05:19 1999
+++ sysvinit-2.77/src/md5.c Sat Jul 24 02:13:39 1999
@@ -0,0 +1,256 @@
+/*
+ * $Id: md5.c,v 1.1.1.2 1999/07/24 00:13:39 gafton Exp $
+ *
+ * This code implements the MD5 message-digest algorithm.
+ * The algorithm is due to Ron Rivest.  This code was
+ * written by Colin Plumb in 1993, no copyright is claimed.
+ * This code is in the public domain; do with it what you wish.
+ *
+ * Equivalent code is available from RSA Data Security, Inc.
+ * This code has been tested against that, and is equivalent,
+ * except that you don't need to include two pages of legalese
+ * with every copy.
+ *
+ * To compute the message digest of a chunk of bytes, declare an
+ * MD5Context structure, pass it to MD5Init, call MD5Update as
+ * needed on buffers full of bytes, and then call MD5Final, which
+ * will fill a supplied 16-byte array with the digest.
+ *
+ */
+
+#include <string.h>
+#include "md5.h"
+
+#ifndef HIGHFIRST
+#define byteReverse(buf, len) /* Nothing */
+#else
+static void byteReverse(unsigned char *buf, unsigned longs);
+
+#ifndef ASM_MD5
+/*
+ * Note: this code is harmless on little-endian machines.
+ */
+static void byteReverse(unsigned char *buf, unsigned longs)
+{
+ uint32 t;
+ do {
+  t = (uint32) ((unsigned) buf[3] << 8 | buf[2]) << 16 |
```

```
+     ((unsigned) buf[1] << 8 | buf[0]);
+  *(uint32 *) buf = t;
+  buf += 4;
+ } while (--longs);
+}
+#endif
+#endif
+
+/*
+ * Start MD5 accumulation.  Set bit count to 0 and buffer to mysterious
+ * initialization constants.
+ */
+void MD5Name(MD5Init)(struct MD5Context *ctx)
+{
+ ctx->buf[0] = 0x67452301U;
+ ctx->buf[1] = 0xefcdab89U;
+ ctx->buf[2] = 0x98badcfeU;
+ ctx->buf[3] = 0x10325476U;
+
+ ctx->bits[0] = 0;
+ ctx->bits[1] = 0;
+}
+
+/*
+ * Update context to reflect the concatenation of another buffer full
+ * of bytes.
+ */
+void MD5Name(MD5Update)(struct MD5Context *ctx, unsigned const char *buf, unsigned len)
+{
+ uint32 t;
+
+ /* Update bitcount */
+
+ t = ctx->bits[0];
+ if ((ctx->bits[0] = t + ((uint32) len << 3)) < t)
+  ctx->bits[1]++; /* Carry from low to high */
+ ctx->bits[1] += len >> 29;
+
+ t = (t >> 3) & 0x3f; /* Bytes already in shsInfo->data */
+
+ /* Handle any leading odd-sized chunks */
+
+ if (t) {
+  unsigned char *p = (unsigned char *) ctx->in + t;
+
+  t = 64 - t;
+  if (len < t) {
+   memcpy(p, buf, len);
```

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

```
+   MD5Name(MD5Transform)(ctx->buf, (uint32 *) ctx->in);
+
+   /* Now fill the next block with 56 bytes */
+   memset(ctx->in, 0, 56);
+ } else {
+   /* Pad block to 56 bytes */
+   memset(p, 0, count - 8);
+ }
+ byteReverse(ctx->in, 14);
+
+ /* Append length in bits and transform */
+ ((uint32 *) ctx->in)[14] = ctx->bits[0];
+ ((uint32 *) ctx->in)[15] = ctx->bits[1];
+
+ MD5Name(MD5Transform)(ctx->buf, (uint32 *) ctx->in);
+ byteReverse((unsigned char *) ctx->buf, 4);
+ memcpy(digest, ctx->buf, 16);
+ memset(ctx, 0, sizeof(ctx)); /* In case it's sensitive */
+}
+
+#ifndef ASM_MD5
+
+/* The four core functions - F1 is optimized somewhat */
+
+/* #define F1(x, y, z) (x & y | ~x & z) */
+#define F1(x, y, z) (z ^ (x & (y ^ z)))
+#define F2(x, y, z) F1(z, x, y)
+#define F3(x, y, z) (x ^ y ^ z)
+#define F4(x, y, z) (y ^ (x | ~z))
+
+/* This is the central step in the MD5 algorithm. */
+#define MD5STEP(f, w, x, y, z, data, s) \
+ ( w += f(x, y, z) + data,  w = w<<s | w>>(32-s),  w += x )
+
+/*
+ * The core of the MD5 algorithm, this alters an existing MD5 hash to
+ * reflect the addition of 16 longwords of new data.  MD5Update blocks
+ * the data and converts bytes into longwords for this routine.
+ */
+void MD5Name(MD5Transform)(uint32 buf[4], uint32 const in[16])
+{
+ register uint32 a, b, c, d;
+
+ a = buf[0];
+ b = buf[1];
+ c = buf[2];
+ d = buf[3];
+
```

```
+ MD5STEP(F1, a, b, c, d, in[0] + 0xd76aa478U, 7);
+ MD5STEP(F1, d, a, b, c, in[1] + 0xe8c7b756U, 12);
+ MD5STEP(F1, c, d, a, b, in[2] + 0x242070dbU, 17);
+ MD5STEP(F1, b, c, d, a, in[3] + 0xc1bdceeeU, 22);
+ MD5STEP(F1, a, b, c, d, in[4] + 0xf57c0fafU, 7);
+ MD5STEP(F1, d, a, b, c, in[5] + 0x4787c62aU, 12);
+ MD5STEP(F1, c, d, a, b, in[6] + 0xa8304613U, 17);
+ MD5STEP(F1, b, c, d, a, in[7] + 0xfd469501U, 22);
+ MD5STEP(F1, a, b, c, d, in[8] + 0x698098d8U, 7);
+ MD5STEP(F1, d, a, b, c, in[9] + 0x8b44f7afU, 12);
+ MD5STEP(F1, c, d, a, b, in[10] + 0xffff5bb1U, 17);
+ MD5STEP(F1, b, c, d, a, in[11] + 0x895cd7beU, 22);
+ MD5STEP(F1, a, b, c, d, in[12] + 0x6b901122U, 7);
+ MD5STEP(F1, d, a, b, c, in[13] + 0xfd987193U, 12);
+ MD5STEP(F1, c, d, a, b, in[14] + 0xa679438eU, 17);
+ MD5STEP(F1, b, c, d, a, in[15] + 0x49b40821U, 22);
+
+ MD5STEP(F2, a, b, c, d, in[1] + 0xf61e2562U, 5);
+ MD5STEP(F2, d, a, b, c, in[6] + 0xc040b340U, 9);
+ MD5STEP(F2, c, d, a, b, in[11] + 0x265e5a51U, 14);
+ MD5STEP(F2, b, c, d, a, in[0] + 0xe9b6c7aaU, 20);
+ MD5STEP(F2, a, b, c, d, in[5] + 0xd62f105dU, 5);
+ MD5STEP(F2, d, a, b, c, in[10] + 0x02441453U, 9);
+ MD5STEP(F2, c, d, a, b, in[15] + 0xd8a1e681U, 14);
+ MD5STEP(F2, b, c, d, a, in[4] + 0xe7d3fbc8U, 20);
+ MD5STEP(F2, a, b, c, d, in[9] + 0x21e1cde6U, 5);
+ MD5STEP(F2, d, a, b, c, in[14] + 0xc33707d6U, 9);
+ MD5STEP(F2, c, d, a, b, in[3] + 0xf4d50d87U, 14);
+ MD5STEP(F2, b, c, d, a, in[8] + 0x455a14edU, 20);
+ MD5STEP(F2, a, b, c, d, in[13] + 0xa9e3e905U, 5);
+ MD5STEP(F2, d, a, b, c, in[2] + 0xfcefa3f8U, 9);
+ MD5STEP(F2, c, d, a, b, in[7] + 0x676f02d9U, 14);
+ MD5STEP(F2, b, c, d, a, in[12] + 0x8d2a4c8aU, 20);
+
+ MD5STEP(F3, a, b, c, d, in[5] + 0xfffa3942U, 4);
+ MD5STEP(F3, d, a, b, c, in[8] + 0x8771f681U, 11);
+ MD5STEP(F3, c, d, a, b, in[11] + 0x6d9d6122U, 16);
+ MD5STEP(F3, b, c, d, a, in[14] + 0xfde5380cU, 23);
+ MD5STEP(F3, a, b, c, d, in[1] + 0xa4beea44U, 4);
+ MD5STEP(F3, d, a, b, c, in[4] + 0x4bdecfa9U, 11);
+ MD5STEP(F3, c, d, a, b, in[7] + 0xf6bb4b60U, 16);
+ MD5STEP(F3, b, c, d, a, in[10] + 0xbebfbc70U, 23);
+ MD5STEP(F3, a, b, c, d, in[13] + 0x289b7ec6U, 4);
+ MD5STEP(F3, d, a, b, c, in[0] + 0xeaa127faU, 11);
+ MD5STEP(F3, c, d, a, b, in[3] + 0xd4ef3085U, 16);
+ MD5STEP(F3, b, c, d, a, in[6] + 0x04881d05U, 23);
+ MD5STEP(F3, a, b, c, d, in[9] + 0xd9d4d039U, 4);
+ MD5STEP(F3, d, a, b, c, in[12] + 0xe6db99e5U, 11);
```

+ MD5STEP(F3, c, d, a, b, in[15] + 0x1fa27cf8U, 16);
+ MD5STEP(F3, b, c, d, a, in[2] + 0xc4ac5665U, 23);
+
+ MD5STEP(F4, a, b, c, d, in[0] + 0xf4292244U, 6);
+ MD5STEP(F4, d, a, b, c, in[7] + 0x432aff97U, 10);
+ MD5STEP(F4, c, d, a, b, in[14] + 0xab9423a7U, 15);
+ MD5STEP(F4, b, c, d, a, in[5] + 0xfc93a039U, 21);
+ MD5STEP(F4, a, b, c, d, in[12] + 0x655b59c3U, 6);
+ MD5STEP(F4, d, a, b, c, in[3] + 0x8f0ccc92U, 10);
+ MD5STEP(F4, c, d, a, b, in[10] + 0xffeff47dU, 15);
+ MD5STEP(F4, b, c, d, a, in[1] + 0x85845dd1U, 21);
+ MD5STEP(F4, a, b, c, d, in[8] + 0x6fa87e4fU, 6);
+ MD5STEP(F4, d, a, b, c, in[15] + 0xfe2ce6e0U, 10);
+ MD5STEP(F4, c, d, a, b, in[6] + 0xa3014314U, 15);
+ MD5STEP(F4, b, c, d, a, in[13] + 0x4e0811a1U, 21);
+ MD5STEP(F4, a, b, c, d, in[4] + 0xf7537e82U, 6);
+ MD5STEP(F4, d, a, b, c, in[11] + 0xbd3af235U, 10);
+ MD5STEP(F4, c, d, a, b, in[2] + 0x2ad7d2bbU, 15);
+ MD5STEP(F4, b, c, d, a, in[9] + 0xeb86d391U, 21);
+
+ buf[0] += a;
+ buf[1] += b;
+ buf[2] += c;
+ buf[3] += d;
+}
+
+#endif
--- sysvinit-2.77/src/md5.h.be Fri Aug 20 14:05:22 1999
+++ sysvinit-2.77/src/md5.h Fri Aug 20 13:54:09 1999
@@ -0,0 +1,40 @@
+#ifndef MD5_H
+#define MD5_H
+
+#include <features.h>
+#if defined(__GLIBC__) && __GLIBC__ > 1
+# include <stdint.h>
+typedef uint32_t uint32;
+#else
+# ifdef __alpha
+typedef unsigned int uint32;
+# else
+typedef unsigned long uint32;
+# endif
+#endif
+
+struct MD5Context {
+   uint32 buf[4];
+   uint32 bits[2];

```
+    unsigned char in[64];
+};
+
+void GoodMD5Init(struct MD5Context *);
+void GoodMD5Update(struct MD5Context *, unsigned const char *, unsigned);
+void GoodMD5Final(unsigned char digest[16], struct MD5Context *);
+void GoodMD5Transform(uint32 buf[4], uint32 const in[16]);
+void BrokenMD5Init(struct MD5Context *);
+void BrokenMD5Update(struct MD5Context *, unsigned const char *, unsigned);
+void BrokenMD5Final(unsigned char digest[16], struct MD5Context *);
+void BrokenMD5Transform(uint32 buf[4], uint32 const in[16]);
+
+char *Goodcrypt_md5(const char *pw, const char *salt);
+char *Brokencrypt_md5(const char *pw, const char *salt);
+
+/*
+* This is needed to make RSAREF happy on some MS-DOS compilers.
+*/
+
+typedef struct MD5Context MD5_CTX;
+
+#endif /* MD5_H */
--- sysvinit-2.77/src/md5_crypt.c.be Fri Aug 20 14:05:25 1999
+++ sysvinit-2.77/src/md5_crypt.c Sat Jul 24 02:13:39 1999
@@ -0,0 +1,149 @@
+/*
+ * $Id: md5_crypt.c,v 1.1.1.1 1999/07/24 00:13:39 gafton Exp $
+ *
+ * ----------------------------------------------------------------------------
+ * "THE BEER-WARE LICENSE" (Revision 42):
+ * <phk@login.dknet.dk> wrote this file.  As long as you retain this notice you
+ * can do whatever you want with this stuff. If we meet some day, and you think
+ * this stuff is worth it, you can buy me a beer in return.   Poul-Henning Kamp
+ * ----------------------------------------------------------------------------
+ *
+ * Origin: Id: crypt.c,v 1.3 1995/05/30 05:42:22 rgrimes Exp
+ *
+ */
+
+#include <string.h>
+#include "md5.h"
+
+static unsigned char itoa64[] = /* 0 ... 63 => ascii - 64 */
+"./0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz";
+
+static void to64(char *s, unsigned long v, int n)
+{
+ while (--n >= 0) {
```

```
+  *s++ = itoa64[v & 0x3f];
+  v >>= 6;
+ }
+}
+
+/*
+ * UNIX password
+ *
+ * Use MD5 for what it is best at...
+ */
+
+char *MD5Name(crypt_md5)(const char *pw, const char *salt)
+{
+ const char *magic = "$1$";
+ /* This string is magic for this algorithm.  Having
+  * it this way, we can get get better later on */
+ static char passwd[120], *p;
+ static const char *sp, *ep;
+ unsigned char final[16];
+ int sl, pl, i, j;
+ MD5_CTX ctx, ctx1;
+ unsigned long l;
+
+ /* Refine the Salt first */
+ sp = salt;
+
+ /* If it starts with the magic string, then skip that */
+ if (!strncmp(sp, magic, strlen(magic)))
+  sp += strlen(magic);
+
+ /* It stops at the first '$', max 8 chars */
+ for (ep = sp; *ep && *ep != '$' && ep < (sp + 8); ep++)
+  continue;
+
+ /* get the length of the true salt */
+ sl = ep - sp;
+
+ MD5Name(MD5Init)(&ctx);
+
+ /* The password first, since that is what is most unknown */
+ MD5Name(MD5Update)(&ctx,(unsigned const char *)pw,strlen(pw));
+
+ /* Then our magic string */
+ MD5Name(MD5Update)(&ctx,(unsigned const char *)magic,strlen(magic));
+
+ /* Then the raw salt */
+ MD5Name(MD5Update)(&ctx,(unsigned const char *)sp,sl);
+
```

```
+ /* Then just as many characters of the MD5(pw,salt,pw) */
+ MD5Name(MD5Init)(&ctx1);
+ MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+ MD5Name(MD5Update)(&ctx1,(unsigned const char *)sp,sl);
+ MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+ MD5Name(MD5Final)(final,&ctx1);
+ for (pl = strlen(pw); pl > 0; pl -= 16)
+  MD5Name(MD5Update)(&ctx,(unsigned const char *)final,pl>16 ? 16 : pl);
+
+ /* Don't leave anything around in vm they could use. */
+ memset(final, 0, sizeof final);
+
+ /* Then something really weird... */
+ for (j = 0, i = strlen(pw); i; i >>= 1)
+  if (i & 1)
+    MD5Name(MD5Update)(&ctx, (unsigned const char *)final+j, 1);
+  else
+    MD5Name(MD5Update)(&ctx, (unsigned const char *)pw+j, 1);
+
+ /* Now make the output string */
+ strcpy(passwd, magic);
+ strncat(passwd, sp, sl);
+ strcat(passwd, "$");
+
+ MD5Name(MD5Final)(final,&ctx);
+
+ /*
+  * and now, just to make sure things don't run too fast
+  * On a 60 Mhz Pentium this takes 34 msec, so you would
+  * need 30 seconds to build a 1000 entry dictionary...
+  */
+ for (i = 0; i < 1000; i++) {
+  MD5Name(MD5Init)(&ctx1);
+  if (i & 1)
+    MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+  else
+    MD5Name(MD5Update)(&ctx1,(unsigned const char *)final,16);
+
+  if (i % 3)
+    MD5Name(MD5Update)(&ctx1,(unsigned const char *)sp,sl);
+
+  if (i % 7)
+    MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
+
+  if (i & 1)
+    MD5Name(MD5Update)(&ctx1,(unsigned const char *)final,16);
+  else
+    MD5Name(MD5Update)(&ctx1,(unsigned const char *)pw,strlen(pw));
```

```
+   MD5Name(MD5Final)(final,&ctx1);
+ }
+
+ p = passwd + strlen(passwd);
+
+ l = (final[0] << 16) | (final[6] << 8) | final[12];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[1] << 16) | (final[7] << 8) | final[13];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[2] << 16) | (final[8] << 8) | final[14];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[3] << 16) | (final[9] << 8) | final[15];
+ to64(p, l, 4);
+ p += 4;
+ l = (final[4] << 16) | (final[10] << 8) | final[5];
+ to64(p, l, 4);
+ p += 4;
+ l = final[11];
+ to64(p, l, 2);
+ p += 2;
+ *p = '\0';
+
+ /* Don't leave anything around in vm they could use. */
+ memset(final, 0, sizeof final);
+
+ return passwd;
+}
--- sysvinit-2.77/src/Makefile.be Fri Aug 20 12:05:26 1999
+++ sysvinit-2.77/src/Makefile Fri Aug 20 14:20:42 1999
@@ -50,8 +50,8 @@ utmpdump: utmpdump.o
runlevel: runlevel.o
  $(CC) $(LDFLAGS) -o $@ runlevel.o

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

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

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

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

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

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

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.77-md5-be.patch
No license file was found, but licenses were detected in source scan.

/*
 * Init A System-V Init Clone.
 *
 * Usage: /sbin/init
 *   init [0123456SsQqAaBbCc]
 *   telinit [0123456SsQqAaBbCc]
 *
 * Version: @(#)init.c 2.78 11-Feb-2000 miquels@cistron.nl
 *
 * This file is part of the sysvinit suite,

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/init.c
No license file was found, but licenses were detected in source scan.

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

```
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*/
```

Found in path(s):

* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/halt.c

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

```
/*
* wall.c    Write to all users logged in.
*
* Usage: wall [text]
*
* Version: @(#)wall  2.75  28-Jul-1998  miquels@cistron.nl
*
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*/
```

Found in path(s):

* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/wall.c

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

```
/*
* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.
*/
```

Found in path(s):

* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/contrib/start-stop-daemon.c

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

```
/*
```

* kilall5.c Kill all processes except processes that have the
* same session id, so that the shell that called us
* won't be killed. Typically used in shutdown scripts.
*
* pidof.c Tries to get the pid of the process[es] named.
*
* Version: 2.30 03-Jul-1996 rhm MvS
*
* Usage: killall5 [-][signal]
* pidof [-s] [-o omitpid [-o omitpid]] program [program..]
*
* Authors: Miquel van Smoorenburg, miquels@drinkel.cistron.nl
*
* Riku Meskanen, <mesrik@jyu.fi>
* - return all running pids of given program name
* - single shot '-s' option for backwards combatibility
* - omit pid '-o' option and %PPID (parent pid metavariable)
* - syslog() only if not a connected to controlling terminal
* - swapped out programs pids are caught now
*
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*/

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-
a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/kilall5.c
No license file was found, but licenses were detected in source scan.

/*
* dowall.c Write to all users on the system.
*
* Author: Miquel van Smoorenburg, miquels@cistron.nl
*
* Version: @(#)dowall.c 2.76 19-Apr-1999 miquels@cistron.nl
*
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*/

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/dowall.c
No license file was found, but licenses were detected in source scan.

README for the System V style init, version 2.78

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

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

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

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

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

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

If you already _have_ a "wall" in /bin (the SLS release has, for example)

do _not_ install this wall. Chances are that the wall you are already
using is linked to /bin/write. Either first _remove_ /bin/wall before
installing the new one, or don't install the new one at all.

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

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

Miquel van Smoorenburg <miquels@cistron.nl>

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-
a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/doc/Install
No license file was found, but licenses were detected in source scan.

/*
* runlevel Prints out the previous and the current runlevel.
*
* Version: @(#)runlevel 1.20 16-Apr-1997 MvS
*
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*/

Found in path(s):
* /opt/cola/permits/1606678434_1680703456.7423089/0/SysVinit-2.78-19.src.rpm-cosi-expand-archive-
a6w8tbMx/sysvinit-2.78.tar.gz-cosi-expand-archive-t57fFr56/sysvinit-2.78/src/runlevel.c

1.14 libnuma 2.0.11

1.14.1 Available under license :

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        Version 2, June 1991

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1.15 sysv-init 2.78-4

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

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

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1.18 commons-logging 1.2

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java

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1.19 linux-kernel 2.6

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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 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
*
* 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 their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
 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
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Martin Schaller <martin@smurf.franken.de>
 for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
 for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
 for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
 for his LIRC infrared handler

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Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
 for many bugfixes in the generic DVB Core, frontend drivers and
 their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
 for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
 for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
 for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>

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 for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
 for his work on the budget drivers, the demux code,
 the module unloading problems, ...

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 for his work on calculating and checking the crc's for the
 TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
 for the support of the Fujitsu-Siemens Activy budget DVB-S

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 for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
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Peter Beutner <p.beutner@gmx.net>
 for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
 for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
 for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
 for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
 for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
 for the or51211 and or51132 frontend drivers, and
 for merging the nxt2002 and nxt2004 modules into a
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1.20 idna 2.1

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```
"""
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
"""

import sys
from setuptools import setup
import io

version = "2.1"

def main():

  python_version = sys.version_info[:2]
  if python_version < (2,6):
     raise SystemExit("Sorry, Python 2.6 or newer required")

  arguments = {
     'name': 'idna',
     'packages': ['idna'],
     'version': version,
     'description': 'Internationalized Domain Names in Applications (IDNA)',
     'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }

    setup(**arguments)


if __name__ == '__main__':
    main()
```

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* /opt/cola/permits/1156185735_1619141854.94/0/kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/setup.py

1.21 mongo-java-driver 3.10.2
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jar/com/mongodb/annotations/ThreadSafe.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-

jar/com/mongodb/annotations/NotThreadSafe.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-

jar/com/mongodb/annotations/Immutable.java

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

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* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-

jar/com/mongodb/Function.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
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* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/org/bson/BsonRegularExpression.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/MongoInternalException.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/event/CommandStartedEvent.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/org/bson/codecs/ObjectIdCodec.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/org/bson/codecs/BsonValueCodec.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/client/model/CreateIndexOptions.java
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* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/client/model/AggregationLevel.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/org/bson/codecs/pojo/IdGenerator.java
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* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/internal/connection/ReadConcernHelper.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/lang/NonNull.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/Java8FindIterableImpl.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/Java8ChangeStreamIterableImpl.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/lang/package-info.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/Java8MongoIterableFactory.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/Java8AggregateIterableImpl.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/internal/operation/WriteConcernHelper.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/Java8ListCollectionsIterableImpl.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/Java8ForEachHelper.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/FallbackMongoIterableFactory.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/lang/NonNullApi.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/TransactionOptions.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/internal/operation/ServerVersionHelper.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/operation/TransactionOperation.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/ClientSession.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/Java8ListIndexesIterableImpl.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/operation/AbortTransactionOperation.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/ClientSessionImpl.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/com/mongodb/client/internal/Java8MapReduceIterableImpl.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/client/internal/Java8DistinctIterableImpl.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/client/internal/MongoIterableFactory.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/client/internal/package-info.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/client/internal/MongoIterables.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/operation/CommitTransactionOperation.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/client/internal/Java8ListDatabasesIterableImpl.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/operation/OperationReadConcernHelper.java
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* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/org/bson/assertions/Assertions.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/assertions/Assertions.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/org/bson/util/CopyOnWriteMap.java
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* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/util/TlsChannelCallbackException.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java

* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/util/Util.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
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 * https://github.com/marianobarrios/tls-channel
 */
/**
   * Writes a sequence of bytesProduced to this channel from a subsequence of the
   * given buffers.
   *
   * <p>
   * See {@link GatheringByteChannel#write(ByteBuffer[], int, int)} for more
   * details of the meaning of this signature.
   *
   * <p>
   * This method behaves slightly different than the interface specification,
   * with respect to non-blocking responses, see {@link #write(ByteBuffer)}
   * for more details.
   *
   * @param srcs   The buffers from which bytesProduced are to be retrieved
   * @param offset The offset within the buffer array of the first buffer from
   *               which bytesProduced are to be retrieved; must be non-negative and no
   *               larger than <tt>srcs.length</tt>
   * @param length The maximum number of buffers to be accessed; must be
   *               non-negative and no larger than <tt>srcs.length</tt>
   *                - <tt>offset</tt>
   * @return The number of bytesProduced written, contrary to the behavior specified
   * in {@link ByteChannel}, this method never returns 0, but throws
   * {@link WouldBlockException}
   * @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and
```

```
 *                    <tt>length</tt> parameters do not hold
 * @throws WouldBlockException      if the channel is in non-blocking mode and the IO operation
 *                    cannot be completed immediately
 * @throws NeedsTaskException       if the channel is not configured to run tasks automatically
 *                    and a task needs to be executed to complete the operation
 * @throws SSLException            if the {@link SSLEngine} throws a SSLException
 * @throws IOException            if the underlying channel throws an IOException
 */
/**
 * Reads a sequence of bytesProduced from this channel into a subsequence of the
 * given buffers.
 *
 * <p>
 * See {@link ScatteringByteChannel#read(ByteBuffer[], int, int)} for more
 * details of the meaning of this signature.
 *
 * <p>
 * This method behaves slightly different than the interface specification,
 * with respect to non-blocking responses, see {@link #read(ByteBuffer)} for
 * more details.
 *
 * @param dsts   The buffers into which bytesProduced are to be transferred
 * @param offset The offset within the buffer array of the first buffer into
 *          which bytesProduced are to be transferred; must be non-negative and no
 *          larger than <tt>dsts.length</tt>
 * @param length The maximum number of buffers to be accessed; must be
 *          non-negative and no larger than <tt>dsts.length</tt>
 *           - <tt>offset</tt>
 * @return The number of bytesProduced read, or <tt>-1</tt> if the channel has
 * reached end-of-stream; contrary to the behavior specified in
 * {@link ByteChannel}, this method never returns 0, but throws
 * {@link WouldBlockException}
 * @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and
 *                    <tt>length</tt> parameters do not hold
 * @throws WouldBlockException      if the channel is in non-blocking mode and the IO operation
 *                    cannot be completed immediately
 * @throws NeedsTaskException       if the channel is not configured to run tasks automatically
 *                    and a task needs to be executed to complete the operation
 * @throws SSLException            if the {@link SSLEngine} throws a SSLException
 * @throws IOException            if the underlying channel throws an IOException
 */
```

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*/

/**

   * Returns an array containing all of the elements in this deque, in

   * proper sequence (from first to last element).

   *

   * <p>The returned array will be "safe" in that no references to it are

   * maintained by this deque. (In other words, this method must allocate

   * a new array). The caller is thus free to modify the returned array.

   *

   * <p>This method acts as bridge between array-based and collection-based

   * APIs.

   *

   * @return an array containing all of the elements in this deque

   */

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* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
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jar/org/bson/codecs/jsr310/Jsr310CodecProvider.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/org/bson/codecs/jsr310/InstantCodec.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/org/bson/codecs/jsr310/LocalTimeCodec.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/org/bson/codecs/jsr310/LocalDateCodec.java
* /opt/cola/permits/1208468146_1632889946.6/0/mongo-java-driver-3-10-2-sources-1-
jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java

1.22 nfs-utils 1.1.0

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1.23 pcre 8.41

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1.24 libnfsidmap 0.19

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1.25 procps 3.2.6

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1.26 rsync 3.1.2
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1.27 zlib 1.2.7

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1.28 iperf 3

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=====

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=====

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

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1.29 iconv 2.23

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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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c) If distribution of the work is made by offering access to copy
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 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.30 ftpd-bsd 0.3.2

1.30.1 Available under license :

$OpenBSD: Makefile,v 1.5 1999/02/23 23:54:16 art Exp $

PROG= ls
SRCS= cmp.c stat_flags.c ls.c main.c print.c util.c

.include <bsd.prog.mk>
#%PAM-1.0
auth   required /lib/security/pam_listfile.so item=user sense=deny file=/etc/ftpusers onerr=succeed
auth   required /lib/security/pam_pwdb.so shadow nullok
auth   required /lib/security/pam_shells.so
account   required /lib/security/pam_pwdb.so
session   required /lib/security/pam_pwdb.so
$OpenBSD: Makefile,v 1.16 2000/03/01 17:27:28 deraadt Exp $
$NetBSD: Makefile,v 1.13 1996/02/16 02:07:41 cgd Exp $
@(#)Makefile 8.2 (Berkeley) 4/4/94

PROG= ftpd
CFLAGS+=-DHASSETPROCTITLE -Dunix
SRCS= ftpd.c ftpcmd.c logutmp.c logwtmp.c popen.c
MAN= ftpd.8
CLEANFILES+=ftpcmd.c y.tab.h

.include <bsd.own.mk>

our internal version of ls.

LSDIR = ${.CURDIR}/../../bin/ls
.PATH: ${LSDIR}
SRCS += ls.c cmp.c print.c stat_flags.c util.c
CFLAGS += -I${LSDIR}

not really used
CPPFLAGS+=-DINET6

.if (${SKEY} == "yes")
CFLAGS+=-DSKEY
LDADD+= -lskey
DPADD+= ${LIBSKEY}

```
.endif

.if (${KERBEROS} == "yes")
SRCS+= klogin.c
.PATH: ${.CURDIR}/../../usr.bin/login
CFLAGS+= -DKERBEROS
LDADD+= -lkafs -lkrb -ldes
DPADD+= ${LIBKRB} ${LIBKRB} ${LIBKAFS}
.endif

.if (${TCP_WRAPPERS} == "yes")
CFLAGS+=-DTCPWRAPPERS
LDADD+= -lwrap
DPADD+= ${LIBWRAP}
.endif

.include <bsd.prog.mk>
```
A WARNING ABOUT GMT VS LOCALTIME
to people using ftpd-BSD-0.3.0 to serve anonymous FTP
who consider moving to ftpd-BSD-0.3.1

David A. Madore <david.madore@ens.fr>

(This warning should be included in the ftpd-BSD-0.3.1 distribution,
but I discovered this after packaging, and I did not want to
repackage, resign the tarball, rebuild the RPMs and resign them. So
it will stay as a separate file.)

The FTP protocol is a bit old and does not specify in what format the
file listings returned by the LIST and STAT commands are to be given.
Traditionally, the Unix ``ls'' program is run, so it has become the
de facto standard for the commands' output format; many programs
expect this and parse accordingly.

One thing is certainly not specified, and that is whether the time of
last modification returned for the files listed is given in local time
(the time in the server's time zone) or universal time (UT, aka
Greenwich Mean Time or GMT).

Under Linux, the time format returned by the ctime() function in the
(GNU) libc is determined by the contents of the /etc/localtime file
which can be overridden by the TZ environment variable if it exists;
if nothing is specified (e.g. if the /etc/localtime file does not
exist), universal time is used (as is the case if TZ=GMT).

Version 0.3.0 of ftpd-BSD used an external ls program. In the case of
anonymous ftp, this ls runs in a chroot()ed environment, and it

frequently does not have an /etc/localtime file on which to rely, so it returns the time in GMT. Version 0.3.1, on the other hand, uses an internal ls function, so its time zone is initialized when the ftpd program is run, before the chroot() call is made, and the time zone used is typically the computer's local time. This means that simply moving from ftpd-BSD-0.3.0 to ftpd-BSD-0.3.1 without further precaution will offset all the last modification times returned by the LIST and STAT commands. If you live east of Greenwich, this could result in mirror sites needlessly downloading all files, thinking they have changed; if you live west of Greenwich, this could result in mirror sites not downloading files which they should have.

This may very well turn out to be a non-issue. I am not sure exactly how mirroring programs work. If you do not have any mirror sites, or if you use only non-anonymous FTP, the issue is moot.

One workaround is to start ftpd with TZ=GMT set. This generally means starting inetd with TZ=GMT. Beware, though, that environments tend to be inherited quite far, and even telnetd will have TZ=GMT and if you telnet into your machine you might have universal time instead of local time as you expect (but you can always unset TZ or position it as you like, e.g. TZ=US/Eastern). Another solution is not to use the internal ls command (in which case you might as well stick to version 0.3.0). Finally, you can decide to stick to local time, but I do not recommend this as the clients have no way of knowing the server's time zone (personally I think local time is good only when talking to humans, and everything else should always use universal time: this is the strategy taken by the HTTP protocol for example).

I would appreciate it if FTP experts could tell me more about this problem. I have read about Bernstein's easily parsed LIST format (see http://cr.yp.to/ftp/list/eplf.html for a description), and I wonder whether it is worth implementing (in particular, whether some clients understand it): I might try contacting the OpenBSD people about this.

--
David A. Madore
(david.madore@ens.fr,
http://www.eleves.ens.fr:8080/home/madore/)

1.31 zlib 1.2.3

1.31.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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

*/
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1.32 ethtool 2.6

1.32.1 Available under license :

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          Version 2, June 1991

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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```

[zlib]

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

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Jean-loup Gailly   Mark Adler

jloup@gzip.org   madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for

Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt

(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

[dialyzer]

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[edoc, syntax_tools]

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[eunit]

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THE BASIC LIBRARY FUNCTIONS

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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
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1.35 setserial 2.17

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* /opt/cola/permits/1606678443_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/setserial.8
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* /opt/cola/permits/1606678443_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/version.h

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* include/linux/serial.h

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1.36 libpcap 0.9.2

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1.38 bzip2 1.0.8

1.39 popt 1.5

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1.40 httpcomponents-mime 4.5.3

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1.42 glib 2.46.2

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End
/***
*   Perl-Compatible Regular Expressions   *
***/

/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

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----
*/

#ifndef _PCRE_H
#define _PCRE_H

/* The current PCRE version information. */

#define PCRE_MAJOR   8
#define PCRE_MINOR   31
#define PCRE_PRERELEASE
#define PCRE_DATE   2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
ifndef PCRE_EXP_DECL
define PCRE_EXP_DECL extern __declspec(dllimport)
endif
ifdef __cplusplus
ifndef PCRECPP_EXP_DECL
define PCRECPP_EXP_DECL extern __declspec(dllimport)
endif
ifndef PCRECPP_EXP_DEFN
define PCRECPP_EXP_DEFN __declspec(dllimport)
endif
endif
#endif

/* By default, we use the standard "extern" declarations. */

```
#ifndef PCRE_EXP_DECL
#  ifdef __cplusplus
#    define PCRE_EXP_DECL  extern "C"
#  else
#    define PCRE_EXP_DECL  extern
#  endif
#endif

#ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#    define PCRECPP_EXP_DECL  extern
#  endif
#  ifndef PCRECPP_EXP_DEFN
#    define PCRECPP_EXP_DEFN
#  endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and therefore JIT
compiling). */

#define PCRE_CASELESS           0x00000001  /* Compile */
#define PCRE_MULTILINE          0x00000002  /* Compile */
#define PCRE_DOTALL             0x00000004  /* Compile */
#define PCRE_EXTENDED           0x00000008  /* Compile */
#define PCRE_ANCHORED           0x00000010  /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY     0x00000020  /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA              0x00000040  /* Compile */
#define PCRE_NOTBOL             0x00000080  /* Exec, DFA exec */
#define PCRE_NOTEOL             0x00000100  /* Exec, DFA exec */
#define PCRE_UNGREEDY           0x00000200  /* Compile */
```

```
#define PCRE_NOTEMPTY          0x00000400  /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8              0x00000800  /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16             0x00000800  /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE   0x00001000  /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK     0x00002000  /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK    0x00002000  /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT      0x00004000  /* Compile */
#define PCRE_PARTIAL_SOFT      0x00008000  /* Exec, DFA exec */
#define PCRE_PARTIAL           0x00008000  /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST      0x00010000  /* DFA exec */
#define PCRE_DFA_RESTART       0x00020000  /* DFA exec */
#define PCRE_FIRSTLINE         0x00040000  /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES          0x00080000  /* Compile */
#define PCRE_NEWLINE_CR        0x00100000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF        0x00200000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF      0x00300000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY       0x00400000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF   0x00500000  /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF       0x00800000  /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE       0x01000000  /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000  /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000  /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000  /* Synonym */
#define PCRE_PARTIAL_HARD      0x08000000  /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART  0x10000000  /* Exec, DFA exec */
#define PCRE_UCP               0x20000000  /* Compile, used in exec, DFA exec */


/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH         (-1)
#define PCRE_ERROR_NULL            (-2)
#define PCRE_ERROR_BADOPTION       (-3)
#define PCRE_ERROR_BADMAGIC        (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE  (-5)
#define PCRE_ERROR_UNKNOWN_NODE    (-5)  /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY        (-6)
#define PCRE_ERROR_NOSUBSTRING     (-7)
#define PCRE_ERROR_MATCHLIMIT      (-8)
#define PCRE_ERROR_CALLOUT         (-9)  /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8         (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16        (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET  (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL         (-12)
#define PCRE_ERROR_BADPARTIAL      (-13)
#define PCRE_ERROR_INTERNAL        (-14)
```

```
#define PCRE_ERROR_BADCOUNT        (-15)
#define PCRE_ERROR_DFA_UITEM       (-16)
#define PCRE_ERROR_DFA_UCOND       (-17)
#define PCRE_ERROR_DFA_UMLIMIT     (-18)
#define PCRE_ERROR_DFA_WSSIZE      (-19)
#define PCRE_ERROR_DFA_RECURSE     (-20)
#define PCRE_ERROR_RECURSIONLIMIT  (-21)
#define PCRE_ERROR_NULLWSLIMIT     (-22)  /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE      (-23)
#define PCRE_ERROR_BADOFFSET       (-24)
#define PCRE_ERROR_SHORTUTF8       (-25)
#define PCRE_ERROR_SHORTUTF16      (-25)  /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP     (-26)
#define PCRE_ERROR_JIT_STACKLIMIT  (-27)
#define PCRE_ERROR_BADMODE         (-28)
#define PCRE_ERROR_BADENDIANNESS   (-29)
#define PCRE_ERROR_DFA_BADRESTART  (-30)


/* Specific error codes for UTF-8 validity checks */

#define PCRE_UTF8_ERR0        0
#define PCRE_UTF8_ERR1        1
#define PCRE_UTF8_ERR2        2
#define PCRE_UTF8_ERR3        3
#define PCRE_UTF8_ERR4        4
#define PCRE_UTF8_ERR5        5
#define PCRE_UTF8_ERR6        6
#define PCRE_UTF8_ERR7        7
#define PCRE_UTF8_ERR8        8
#define PCRE_UTF8_ERR9        9
#define PCRE_UTF8_ERR10       10
#define PCRE_UTF8_ERR11       11
#define PCRE_UTF8_ERR12       12
#define PCRE_UTF8_ERR13       13
#define PCRE_UTF8_ERR14       14
#define PCRE_UTF8_ERR15       15
#define PCRE_UTF8_ERR16       16
#define PCRE_UTF8_ERR17       17
#define PCRE_UTF8_ERR18       18
#define PCRE_UTF8_ERR19       19
#define PCRE_UTF8_ERR20       20
#define PCRE_UTF8_ERR21       21


/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0        0
#define PCRE_UTF16_ERR1        1
#define PCRE_UTF16_ERR2        2
```

```
#define PCRE_UTF16_ERR3         3
#define PCRE_UTF16_ERR4         4


/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS          0
#define PCRE_INFO_SIZE             1
#define PCRE_INFO_CAPTURECOUNT     2
#define PCRE_INFO_BACKREFMAX       3
#define PCRE_INFO_FIRSTBYTE        4
#define PCRE_INFO_FIRSTCHAR        4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE       5
#define PCRE_INFO_LASTLITERAL      6
#define PCRE_INFO_NAMEENTRYSIZE    7
#define PCRE_INFO_NAMECOUNT        8
#define PCRE_INFO_NAMETABLE        9
#define PCRE_INFO_STUDYSIZE        10
#define PCRE_INFO_DEFAULT_TABLES   11
#define PCRE_INFO_OKPARTIAL        12
#define PCRE_INFO_JCHANGED         13
#define PCRE_INFO_HASCRORLF        14
#define PCRE_INFO_MINLENGTH        15
#define PCRE_INFO_JIT              16
#define PCRE_INFO_JITSIZE          17
#define PCRE_INFO_MAXLOOKBEHIND    18


/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8                   0
#define PCRE_CONFIG_NEWLINE                1
#define PCRE_CONFIG_LINK_SIZE              2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT            4
#define PCRE_CONFIG_STACKRECURSE           5
#define PCRE_CONFIG_UNICODE_PROPERTIES     6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION  7
#define PCRE_CONFIG_BSR                    8
#define PCRE_CONFIG_JIT                    9
#define PCRE_CONFIG_UTF16                  10
#define PCRE_CONFIG_JITTARGET              11


/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_STUDY_JIT_COMPILE              0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004
```

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */

```
#define PCRE_EXTRA_STUDY_DATA            0x0001
#define PCRE_EXTRA_MATCH_LIMIT           0x0002
#define PCRE_EXTRA_CALLOUT_DATA          0x0004
#define PCRE_EXTRA_TABLES                0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK                  0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT        0x0040
```

/* Types */

```
struct real_pcre;              /* declaration; the definition is private  */
typedef struct real_pcre pcre;

struct real_pcre16;            /* declaration; the definition is private  */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack;    /* declaration; the definition is private  */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack;  /* declaration; the definition is private  */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;
```

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
```
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif
```

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

```
#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif
```

/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

```
typedef struct pcre_extra {
 unsigned long int flags;        /* Bits for which fields are set */
 void *study_data;               /* Opaque data from pcre_study() */
 unsigned long int match_limit; /* Maximum number of calls to match() */
 void *callout_data;             /* Data passed back in callouts */
 const unsigned char *tables;    /* Pointer to character tables */
 unsigned long int match_limit_recursion; /* Max recursive calls to match() */
 unsigned char **mark;           /* For passing back a mark pointer */
 void *executable_jit;           /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_extra {
 unsigned long int flags;        /* Bits for which fields are set */
 void *study_data;               /* Opaque data from pcre_study() */
 unsigned long int match_limit; /* Maximum number of calls to match() */
 void *callout_data;             /* Data passed back in callouts */
 const unsigned char *tables;    /* Pointer to character tables */
 unsigned long int match_limit_recursion; /* Max recursive calls to match() */
 PCRE_UCHAR16 **mark;            /* For passing back a mark pointer */
 void *executable_jit;           /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
 int       version;         /* Identifies version of block */
 /* ----------------------- Version 0 ------------------------------ */
 int       callout_number;   /* Number compiled into pattern */
 int       *offset_vector;    /* The offset vector */
 PCRE_SPTR   subject;          /* The subject being matched */
 int       subject_length;   /* The length of the subject */
 int       start_match;      /* Offset to start of this match attempt */
 int       current_position; /* Where we currently are in the subject */
 int       capture_top;      /* Max current capture */
 int       capture_last;     /* Most recently closed capture */
 void       *callout_data;    /* Data passed in with the call */
 /* ------------------- Added for Version 1 ------------------------- */
 int       pattern_position; /* Offset to next item in the pattern */
 int       next_item_length; /* Length of next item in the pattern */
 /* ------------------- Added for Version 2 ------------------------- */
 const unsigned char *mark;     /* Pointer to current mark or NULL    */
 /* ---------------------------------------------------------------- */
```

```
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */


typedef struct pcre16_callout_block {
  int          version;           /* Identifies version of block */
  /* ------------------------ Version 0 ------------------------------- */
  int          callout_number;   /* Number compiled into pattern */
  int          *offset_vector;    /* The offset vector */
  PCRE_SPTR16  subject;           /* The subject being matched */
  int          subject_length;    /* The length of the subject */
  int          start_match;       /* Offset to start of this match attempt */
  int          current_position;  /* Where we currently are in the subject */
  int          capture_top;       /* Max current capture */
  int          capture_last;      /* Most recently closed capture */
  void         *callout_data;     /* Data passed in with the call */
  /* ------------------- Added for Version 1 ------------------------- */
  int          pattern_position;  /* Offset to next item in the pattern */
  int          next_item_length;  /* Length of next item in the pattern */
  /* ------------------- Added for Version 2 ------------------------- */
  const PCRE_UCHAR16 *mark;       /* Pointer to current mark or NULL    */
  /* ---------------------------------------------------------------- */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre16_callout)(pcre16_callout_block *);
#else  /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void  pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre_stack_free(void *);
PCRE_EXP_DECL int   pcre_callout(pcre_callout_block *);
```

```
PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void  pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre16_stack_free(void *);
PCRE_EXP_DECL int   pcre16_callout(pcre16_callout_block *);
#endif  /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
          const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
          const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
          int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
          int *, const unsigned char *);
PCRE_EXP_DECL int  pcre_config(int, void *);
PCRE_EXP_DECL int  pcre16_config(int, void *);
PCRE_EXP_DECL int  pcre_copy_named_substring(const pcre *, const char *,
          int *, int, const char *, char *, int);
PCRE_EXP_DECL int  pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
          int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int  pcre_copy_substring(const char *, int *, int, int,
          char *, int);
PCRE_EXP_DECL int  pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
          PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int  pcre_dfa_exec(const pcre *, const pcre_extra *,
          const char *, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
          PCRE_SPTR16, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
           int, int, int, int *, int);
PCRE_EXP_DECL int  pcre16_exec(const pcre16 *, const pcre16_extra *,
          PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_fullinfo(const pcre *, const pcre_extra *, int,
          void *);
PCRE_EXP_DECL int  pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
```

```
                void *);
PCRE_EXP_DECL int  pcre_get_named_substring(const pcre *, const char *,
        int *, int, const char *, const char **);
PCRE_EXP_DECL int  pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
        int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int  pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int  pcre_get_stringtable_entries(const pcre *, const char *,
        char **, char **);
PCRE_EXP_DECL int  pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
        PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int  pcre_get_substring(const char *, int *, int, int,
        const char **);
PCRE_EXP_DECL int  pcre16_get_substring(PCRE_SPTR16, int *, int, int,
        PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_substring_list(const char *, int *, int,
        const char ***);
PCRE_EXP_DECL int  pcre16_get_substring_list(PCRE_SPTR16, int *, int,
        PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int  pcre_refcount(pcre *, int);
PCRE_EXP_DECL int  pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int  pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
        const unsigned char *);
PCRE_EXP_DECL int  pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
        const unsigned char *);
PCRE_EXP_DECL int  pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
        PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
        pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
        pcre16_jit_callback, void *);
```

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


#endif /* End of pcre.h */
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 * files for a list of changes.  These files are distributed with
 * GLib at ftp://ftp.gtk.org/pub/gtk/.
 */

#ifndef __G_LIB_H__
#define __G_LIB_H__

#define __GLIB_H_INSIDE__

#include <glib/galloca.h>
#include <glib/garray.h>
#include <glib/gasyncqueue.h>
#include <glib/gatomic.h>
#include <glib/gbacktrace.h>
#include <glib/gbase64.h>
#include <glib/gbitlock.h>
#include <glib/gbookmarkfile.h>
#include <glib/gbytes.h>
#include <glib/gcharset.h>
#include <glib/gchecksum.h>
#include <glib/gconvert.h>
#include <glib/gdataset.h>
```

```
#include <glib/gdate.h>
#include <glib/gdatetime.h>
#include <glib/gdir.h>
#include <glib/genviron.h>
#include <glib/gerror.h>
#include <glib/gfileutils.h>
#include <glib/ggettext.h>
#include <glib/ghash.h>
#include <glib/ghmac.h>
#include <glib/ghook.h>
#include <glib/ghostutils.h>
#include <glib/giochannel.h>
#include <glib/gkeyfile.h>
#include <glib/glist.h>
#include <glib/gmacros.h>
#include <glib/gmain.h>
#include <glib/gmappedfile.h>
#include <glib/gmarkup.h>
#include <glib/gmem.h>
#include <glib/gmessages.h>
#include <glib/gnode.h>
#include <glib/goption.h>
#include <glib/gpattern.h>
#include <glib/gpoll.h>
#include <glib/gprimes.h>
#include <glib/gqsort.h>
#include <glib/gquark.h>
#include <glib/gqueue.h>
#include <glib/grand.h>
#include <glib/gregex.h>
#include <glib/gscanner.h>
#include <glib/gsequence.h>
#include <glib/gshell.h>
#include <glib/gslice.h>
#include <glib/gslist.h>
#include <glib/gspawn.h>
#include <glib/gstrfuncs.h>
#include <glib/gstring.h>
#include <glib/gstringchunk.h>
#include <glib/gtestutils.h>
#include <glib/gthread.h>
#include <glib/gthreadpool.h>
#include <glib/gtimer.h>
#include <glib/gtimezone.h>
#include <glib/gtrashstack.h>
#include <glib/gtree.h>
#include <glib/gtypes.h>
#include <glib/gunicode.h>
```

```
#include <glib/gurifuncs.h>
#include <glib/gutils.h>
#include <glib/gvarianttype.h>
#include <glib/gvariant.h>
#include <glib/gversion.h>
#include <glib/gversionmacros.h>
#ifdef G_PLATFORM_WIN32
#include <glib/gwin32.h>
#endif

#ifndef G_DISABLE_DEPRECATED
#include <glib/deprecated/gallocator.h>
#include <glib/deprecated/gcache.h>
#include <glib/deprecated/gcompletion.h>
#include <glib/deprecated/gmain.h>
#include <glib/deprecated/grel.h>
#include <glib/deprecated/gthread.h>
#endif /* G_DISABLE_DEPRECATED */

#include <glib/glib-autocleanups.h>

#undef __GLIB_H_INSIDE__

#endif /* __G_LIB_H__ */
```

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1.43 python-requests 2.12.4

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1.44 netkit-telnet 0.17

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1.45 cffi 1.11.5

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1.46 libffi 3.2.1

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1.47 tensorflow-lite 2.5.0

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path: "tensorflow.errors.PermissionDeniedError"
tf_class {
 is_instance: "<class \'tensorflow.python.framework.errors_impl.PermissionDeniedError\'>"
 is_instance: "<class \'tensorflow.python.framework.errors_impl.OpError\'>"
 is_instance: "<type \'exceptions.Exception\'>"
 member {
  name: "args"
  mtype: "<type \'getset_descriptor\'>"
 }
 member {
  name: "error_code"
  mtype: "<type \'property\'>"
 }
 member {
  name: "experimental_payloads"
  mtype: "<type \'property\'>"

```
  }
  member {
    name: "message"
    mtype: "<type \'property\'>"
  }
  member {
    name: "node_def"
    mtype: "<type \'property\'>"
  }
  member {
    name: "op"
    mtype: "<type \'property\'>"
  }
  member_method {
    name: "__init__"
    argspec: "args=[\'self\', \'node_def\', \'op\', \'message\'], varargs=args, keywords=None, defaults=None"
  }
}
```

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./test/umfpack_support.cpp

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./test/qr_fullpivoting.cpp

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./test/eigen2/eigen2_unalignedassert.cpp

./test/eigen2/eigen2_prec_inverse_4x4.cpp

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1.49 pexpect 4.8.0

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1.50 libtomcrypt 1.17

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```
# /*
#  * SHA-512
#  * Implementation derived from LibTomCrypt (Tom St Denis)
#  *
#  * LibTomCrypt is a library that provides various cryptographic
#  * algorithms in a highly modular and flexible manner.
#  *
#  * The library is free for all purposes without any express
#  * guarantee it works.
#  *
#  * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
#  */
```

1.51 libsgutils 1.35

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1.52 nghttp2 1.47.0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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1.53 libcap 1.10

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1.54 glibc 2.23

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@item
Verify that the user has already received a copy of these
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@end enumerate

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@enumerate a
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@page
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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

Files: *

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Files: aclocal.m4 package

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

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1.56 iputils 20070202

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1.57 dosfs-tools 4.2
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1.58 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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1.59 bash 2.05b

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1.62 libnl3 3.2.5

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* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPOutputStream.java
* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZInputStream.java
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* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Checksum.java
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* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Adler32.java

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* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStreamException.java

* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfTree.java

* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Tree.java

* /opt/cola/permits/1000011954_1651084626.73/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfCodes.java

1.64 open-ldap 2.4.33

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1.67 liburcu 0.8.6

1.67.1 Available under license :

Mathieu Desnoyers
May 13th, 2009

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

 http://lists.casi.polymtl.ca/pipermail/ltt-dev/2009-May/001584.html

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

 commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his

patch in an email dated May 13, 2009 :

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

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

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

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

The license for the library files in this project was therefore changed to
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1.70 python 3.6.1

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

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

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
   because its license has a choice of law clause. According to
   CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
   is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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1.72 mpdecimal 2.4.2

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Contributions to the urllib3 project

Creator & Maintainer

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

Contributors

In chronological order:

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

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

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

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

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

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

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

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

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

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

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

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

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs

* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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

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

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

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

* Cory Benfield <http://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 <http://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 <http://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

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

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

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

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

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

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

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

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

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

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

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

* Jon Wayne Parrott <jonwayne@google.com>
 * App Engine environment tests.

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

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

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

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

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

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

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

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

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

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

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

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

* Jesse 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.

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]

1.74 python-pip 9.0.1
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1.76 pam 0.72

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1.80 zlib 1.2.5

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1.82 pycparser 2.18

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pycparser -- A C parser in Python

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1.83 golang 1.12.4

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1.84 busybox 1.26.2

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1.85 libdnet 1.11

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1.86 zlib 1.2.11

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1.87 libnuma 2.0.10-rc2

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```
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#
# SYNOPSIS
#
#   AX_CHECK_COMPILE_FLAG(FLAG, [ACTION-SUCCESS], [ACTION-FAILURE], [EXTRA-FLAGS],
# [INPUT])
#
# DESCRIPTION
#
#   Check whether the given FLAG works with the current language's compiler
#   or gives an error.  (Warnings, however, are ignored)
#
#   ACTION-SUCCESS/ACTION-FAILURE are shell commands to execute on
#   success/failure.
#
#   If EXTRA-FLAGS is defined, it is added to the current language's default
#   flags (e.g. CFLAGS) when the check is done.  The check is thus made with
#   the flags: "CFLAGS EXTRA-FLAGS FLAG".  This can for example be used to
#   force the compiler to issue an error when a bad flag is given.
#
#   INPUT gives an alternative input source to AC_COMPILE_IFELSE.
#
#   NOTE: Implementation based on AX_CFLAGS_GCC_OPTION. Please keep this
```

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1.88 libedit 2.1

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1.89 xfsprogs 2.8.16-1

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

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

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

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

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

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

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.  This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

  /**
   * Get the basic version string for the current Xalan release.
   * Version String formatted like
   * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
   *
   * Futurework: have this read version info from jar manifest.
   *
   * @return String denoting our current version
   */
  public static String getVersion()
  {
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?
          ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
  }

  /**
   * Print the processor version to the command line.
   *
   * @param argv command line arguments, unused.
   */
  public static void main(String argv[])
  {
    System.out.println(getVersion());
  }
```

```java
/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
  return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *        significant, externally apparent enhancement from
 *        the previous release. 'n' represents the n'th
 *        version.
 *
 *        Clients should carefully consider the implications
 *        of new versions as external interfaces and behaviour
 *        may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This changes when:
 *        - a new set of functionality is to be added, eg,
 *           implementation of a new W3C specification.
 *        - API or behaviour change.
 *        - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
```

```
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *        drop applied to a specific release and contains
 *        fixes for defects reported. It maintains compatibility
 *        with the release and contains no API changes.
 *        When missing, it designates the final and complete
 *        development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return @version.MINOR@;
}


/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *        a specific release. D01 is the first development drop
 *        of a new release.
 *
 *        Development drops are works in progress towards a
 *        compeleted, final release. A specific development drop
 *        may not completely implement all aspects of a new
 *        feature, which may take several development drops to
 *        complete. At the point of the final drop for the
 *        release, the D suffix will be omitted.
 *
 *        Each 'D' drops can contain functional enhancements as
 *        well as defect fixes. 'D' drops may not be as stable as
 *        the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
     if ((new String("@version.DEVELOPER@")).length() == 0)
       return 0;
     else
       return Integer.parseInt("@version.DEVELOPER@");
  } catch (NumberFormatException nfe) {
       return 0;
  }
 }
}
```

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element.  For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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```

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jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/

package org.apache.xml.serializer;

/**
* Administrative class to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
  return getProduct()+" "+getImplementationLanguage()+" "
```

```java
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
    +( (getDevelopmentVersionNum() > 0) ?
        ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
  System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
  return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *        significant, externally apparent enhancement from
 *        the previous release. 'n' represents the n'th
 *        version.
 *
 *        Clients should carefully consider the implications
 *        of new versions as external interfaces and behaviour
 *        may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}
```

```
/**
 * Release Number.
 * Release number. This changes when:
 *        - a new set of functionality is to be added, eg,
 *          implementation of a new W3C specification.
 *        - API or behaviour change.
 *        - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}


/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *        drop applied to a specific release and contains
 *        fixes for defects reported. It maintains compatibility
 *        with the release and contains no API changes.
 *        When missing, it designates the final and complete
 *        development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return @version.MINOR@;
}


/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *        a specific release. D01 is the first development drop
 *        of a new release.
 *
 *        Development drops are works in progress towards a
 *        compeleted, final release. A specific development drop
 *        may not completely implement all aspects of a new
 *        feature, which may take several development drops to
 *        complete. At the point of the final drop for the
 *        release, the D suffix will be omitted.
 *
 *        Each 'D' drops can contain functional enhancements as
 *        well as defect fixes. 'D' drops may not be as stable as
 *        the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
```

```
        if ((new String("@version.DEVELOPER@")).length() == 0)
          return 0;
        else
          return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
  }
}
```

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/**
 * Major version number.
 * Version number. This changes only when there is a
 *        significant, externally apparent enhancement from
 *        the previous release. 'n' represents the n'th
 *        version.
 *
 *        Clients should carefully consider the implications
 *        of new versions as external interfaces and behaviour
 *        may have changed.
 */
```

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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*/
// Proprietary
/** The 'document-location()' id (Proprietary). */

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jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_html.properties
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*/

/*

```
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC  _xsltc;

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;

  /**
   * Line number where this expression/pattern was declared.
   */
```

```java
    private int _lineNumber = 0;

    /**
     * Reference to the symbol table.
     */
    public SymbolTable _symbolTable;

    public XPathParser(Parser parser) {
        _parser = parser;
_xsltc = parser.getXSLTC();
        _symbolTable = parser.getSymbolTable();
    }

    public int getLineNumber() {
        return _lineNumber;
    }

    public QName getQNameIgnoreDefaultNs(String name) {
        return _parser.getQNameIgnoreDefaultNs(name);
    }

    public QName getQName(String namespace, String prefix, String localname) {
        return _parser.getQName(namespace, prefix, localname);
    }

    public void setMultiDocument(boolean flag) {
        _xsltc.setMultiDocument(flag);
    }

    public void setCallsNodeset(boolean flag) {
        _xsltc.setCallsNodeset(flag);
    }

    public void setHasIdCall(boolean flag) {
        _xsltc.setHasIdCall(flag);
    }


    /**
     * This method is similar to findNodeType(int, Object) except that it
     * creates a StepPattern instead of just returning a node type. It also
     * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
     * patterns are expanded as "*[namespace-uri() = 'uri']" and
     * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
     * simplifies the grouping of patterns in the Mode class. For this
     * expansion to be correct, the priority of the pattern/template must be
     * set to -0.25 (when no other predicates are present).
     */
```

```java
    public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
    }
    else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();

    return new StepPattern(axis, nodeType, predicates);
    }
    else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
  : _xsltc.registerNamespacePrefix(name);;
        }
    else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
 predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
 new Predicate(
    new EqualityExpr(Operators.EQ,
 new NamespaceUriCall(namespace_uri),
 new LiteralExpr(uri))));
}

if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
 : NodeTest.ELEMENT;
}
```

```java
        else if (local.equals("@*")) {
            nodeType = NodeTest.ATTRIBUTE;
        }
        else {
            nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
         : _xsltc.registerElement(name);
        }
    }

    final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
}
    }

    public int findNodeType(int axis, Object test) {
        if (test == null) {  // *
            return (axis == Axis.ATTRIBUTE) ?
            NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
        }
        else if (test instanceof Integer) {
            return ((Integer)test).intValue();
        }
        else {
            QName name = (QName)test;

            if (axis == Axis.NAMESPACE) {
                return (name.toString().equals("*")) ? -1
                 : _xsltc.registerNamespacePrefix(name);
            }

            if (name.getNamespace() == null) {
                final String local = name.getLocalPart();

                if (local.equals("*")) {
                    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
                 : NodeTest.ELEMENT;
                }
                else if (local.equals("@*")) {
                    return NodeTest.ATTRIBUTE;
                }
            }
```

```java
    return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
    }
  }

  /**
   * Parse the expression passed to the current scanner. If this
   * expression contains references to local variables and it will be
   * compiled in an external module (not in the main class) request
   * the current template to create a new variable stack frame.
   *
   * @param lineNumber Line where the current expression is defined.
   * @param external   Set to <tt>true</tt> if this expression is
   *                   compiled in a separate module.
   *
   */
  public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
    _expression = expression;
    _lineNumber = lineNumber;
    return super.parse();
    }
    catch (IllegalCharException e) {
      ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                      lineNumber, e.getMessage());
      _parser.reportError(Constants.FATAL, err);
    }
    return null;
  }

  /**
   * Lookup a variable or parameter in the symbol table given its name.
   *
   * @param name Name of the symbol being looked up.
   */
  final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
      return(result);
    else
    return(_symbolTable.lookupName(name));
  }

  public final void addError(ErrorMsg error) {
_parser.reportError(Constants.ERROR, error);
  }
```

```java
  public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
_parser.reportError(Constants.FATAL, err);
  }

  public void report_fatal_error(String message, Object info) {
    // empty
  }

  public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}
  }

  /**
   * Returns true if the axis applies to elements only. The axes
   * child, attribute, namespace, descendant result in non-empty
   * nodesets only if the context node is of type element.
   */
  public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
 axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
  }
:}


terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
```

```
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
        {: RESULT = pattern; :}
```

```
        | EXPRESSION Expr:expr
        {: RESULT = expr; :};


/* -------------------------- Patterns -------------------------------- */


Pattern ::= LocationPathPattern:lpp
        {: RESULT = lpp; :}


        | LocationPathPattern:lpp VBAR Pattern:p
        {: RESULT = new AlternativePattern(lpp, p);  :};


LocationPathPattern ::= SLASH
        {: RESULT = new AbsolutePathPattern(null); :}


        | SLASH RelativePathPattern:rpp
        {: RESULT = new AbsolutePathPattern(rpp); :}


        | IdKeyPattern:ikp
        {: RESULT = ikp; :}


        | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(ikp, rpp); :}


        | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(ikp, rpp); :}


        | DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(rpp); :}


        | RelativePathPattern:rpp
        {: RESULT = rpp; :};


IdKeyPattern ::= ID LPAREN Literal:l RPAREN
        {: RESULT = new IdPattern(l);
           parser.setHasIdCall(true);
        :}


        | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
        {: RESULT = new KeyPattern(l1, l2); :};


ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
        {: RESULT = new ProcessingInstructionPattern(l); :};


RelativePathPattern ::= StepPattern:sp
        {: RESULT = sp; :}


        | StepPattern:sp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(sp, rpp); :}
```

```
        | StepPattern:sp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(sp, rpp); :};


StepPattern ::= NodeTestPattern:nt
        {:
   RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
        :}


        | NodeTestPattern:nt Predicates:pp
        {:
   RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
        :}


        | ProcessingInstructionPattern:pip
        {: RESULT = pip; :}


    | ProcessingInstructionPattern:pip Predicates:pp
        {: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}


        | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, null);
        :}


    | ChildOrAttributeAxisSpecifier:axis
    NodeTestPattern:nt Predicates:pp
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
        :}


        | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
        {:
      RESULT = pip;  // TODO: report error if axis is attribute
    :}


    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    Predicates:pp
        {:
      // TODO: report error if axis is attribute
      RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};


NodeTestPattern ::= NameTestPattern:nt
        {: RESULT = nt; :}


        | NODE
        {: RESULT = new Integer(NodeTest.ANODE); :}
```

```
        | TEXT
        {: RESULT = new Integer(NodeTest.TEXT); :}

        | COMMENT
        {: RESULT = new Integer(NodeTest.COMMENT); :}

        | PI
        {: RESULT = new Integer(NodeTest.PI); :};


NameTestPattern ::= STAR
        {: RESULT = null; :}

        | QName:qn
        {: RESULT = qn; :};


ChildOrAttributeAxisSpecifier ::= ATSIGN
        {: RESULT = new Integer(Axis.ATTRIBUTE); :}

        | CHILD DCOLON
        {: RESULT = new Integer(Axis.CHILD); :}

        | ATTRIBUTE DCOLON
        {: RESULT = new Integer(Axis.ATTRIBUTE); :};


Predicates ::= Predicate:p
        {:
 Vector temp = new Vector();
 temp.addElement(p);
 RESULT = temp;
        :}

        | Predicate:p Predicates:pp
        {: pp.insertElementAt(p, 0); RESULT = pp; :};


Predicate ::=  LBRACK Expr:e RBRACK
    {:
 RESULT = new Predicate(e);
    :};

/* -------------------------- Expressions ------------------------------- */

Expr ::= OrExpr:ex
     {: RESULT = ex; :};


OrExpr ::= AndExpr:ae
     {: RESULT = ae; :}
```

| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee
{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
{: RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

| EqualityExpr:ee NE RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
{: RESULT = ae; :}

| RelationalExpr:re LT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

| RelationalExpr:re GT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

| RelationalExpr:re LE AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

| RelationalExpr:re GE AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
{: RESULT = me; :}

| AdditiveExpr:ae PLUS MultiplicativeExpr:me
{: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}

| AdditiveExpr:ae MINUS MultiplicativeExpr:me
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
{: RESULT = ue; :}

| MultiplicativeExpr:me MULT UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

```
      | MultiplicativeExpr:me DIV UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

      | MultiplicativeExpr:me MOD UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};


UnaryExpr ::= UnionExpr:ue
      {: RESULT = ue; :}

      | MINUS UnaryExpr:ue
      {: RESULT = new UnaryOpExpr(ue); :};


UnionExpr ::= PathExpr:pe
      {: RESULT = pe; :}

      | PathExpr:pe VBAR UnionExpr:rest
      {: RESULT = new UnionPathExpr(pe, rest); :};


PathExpr ::= LocationPath:lp
      {: RESULT = lp; :}

      | FilterExpr:fexp
      {: RESULT = fexp; :}

      | FilterExpr:fexp SLASH RelativeLocationPath:rlp
      {: RESULT = new FilterParentPath(fexp, rlp); :}

      | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
      {:
        //
  // Expand '//' into '/descendant-or-self::node()/' or
  // into /descendant-or-self::*/
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
      final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
      FilterParentPath fpp = new FilterParentPath(fexp, step);
      fpp = new FilterParentPath(fpp, rlp);
      if (fexp instanceof KeyCall == false) {
        fpp.setDescendantAxis();
  }
      RESULT = fpp;
    :};
```

```
LocationPath ::= RelativeLocationPath:rlp
    {: RESULT = rlp; :}


    | AbsoluteLocationPath:alp
    {: RESULT = alp; :};


RelativeLocationPath ::= Step:step
    {: RESULT = step; :}


    | RelativeLocationPath:rlp SLASH Step:step
    {:
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
        RESULT = step;      // Remove './' from the middle
    }
    else if (((Step) step).isAbbreviatedDot()) {
        RESULT = rlp;       // Remove '/.' from the end
    }
    else {
       RESULT =
        new ParentLocationPath((RelativeLocationPath) rlp, step);
     }
    :}


    | AbbreviatedRelativeLocationPath:arlp
    {: RESULT = arlp; :};


AbsoluteLocationPath ::= SLASH
    {: RESULT = new AbsoluteLocationPath(); :}


    | SLASH RelativeLocationPath:rlp
    {: RESULT = new AbsoluteLocationPath(rlp); :}


    | AbbreviatedAbsoluteLocationPath:aalp
    {: RESULT = aalp; :};


AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
     {:
   final Step right  = (Step)step;
        final int  axis   = right.getAxis();
        final int  type   = right.getNodeType();
        final Vector predicates = right.getPredicates();

        if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
          // Compress './/child:E' into 'descendant::E' - if possible
          if (predicates == null) {
             right.setAxis(Axis.DESCENDANT);
             if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            RESULT = right;
```

```
                }
              else {
                  // Expand 'rlp//child::E' into 'rlp/descendant::E'
                  RelativeLocationPath left = (RelativeLocationPath)rlp;
              RESULT = new ParentLocationPath(left, right);
                  }
              }
            else {
              // Expand './/step' -> 'descendant-or-self::*/step'
              if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
                  Step left = new Step(Axis.DESCENDANTORSELF,
      DTM.ELEMENT_NODE, null);
                  RESULT = new ParentLocationPath(left, right);
                }
              else {
                  // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
                  RelativeLocationPath left = (RelativeLocationPath)rlp;
                  Step mid = new Step(Axis.DESCENDANTORSELF,
      DTM.ELEMENT_NODE, null);
                  ParentLocationPath ppl = new ParentLocationPath(mid, right);
                  RESULT = new ParentLocationPath(left, ppl);
                }
              }
            }
          else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
            // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
            Step middle = new Step(Axis.DESCENDANTORSELF,
        DTM.ELEMENT_NODE, null);
            ParentLocationPath ppl = new ParentLocationPath(middle, right);
            RESULT = new ParentLocationPath(left, ppl);
        }
      else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step middle = new Step(Axis.DESCENDANTORSELF,
      DOM.NO_TYPE, null);
            ParentLocationPath ppl = new ParentLocationPath(middle, right);
        RESULT = new ParentLocationPath(left, ppl);
      }
        :};


AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {:
      //
  // Expand '//' into '/descendant-or-self::node()/' or
  // into /descendant-or-self::*/
```

```
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
   {
      nodeType = DTM.ELEMENT_NODE;
   }
   final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
   RESULT = new AbsoluteLocationPath(parser.insertStep(step,
   (RelativeLocationPath) rlp));
 :};


Step ::= NodeTest:ntest
      {:
         if (ntest instanceof Step) {
            RESULT = (Step)ntest;
         }
         else {
  RESULT = new Step(Axis.CHILD,
                   parser.findNodeType(Axis.CHILD, ntest),
                   null);
         }
      :}


      | NodeTest:ntest Predicates:pp
      {:
         if (ntest instanceof Step) {
            Step step = (Step)ntest;
            step.addPredicates(pp);
            RESULT = (Step)ntest;
         }
         else {
            RESULT = new Step(Axis.CHILD,
                     parser.findNodeType(Axis.CHILD, ntest), pp);
         }
      :}


      | AxisSpecifier:axis NodeTest:ntest Predicates:pp
      {: RESULT = new Step(axis.intValue(),
                   parser.findNodeType(axis.intValue(), ntest),
                   pp);
      :}


      | AxisSpecifier:axis NodeTest:ntest
      {: RESULT = new Step(axis.intValue(),
                   parser.findNodeType(axis.intValue(), ntest),
                   null);
      :}
```

| AbbreviatedStep:abbrev
{: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
{: RESULT = an; :}

| ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::=   ANCESTOR
{: RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD
{: RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT
{: RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF
{: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

| FOLLOWING
{: RESULT = new Integer(Axis.FOLLOWING); :}

| FOLLOWINGSIBLING
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

| NAMESPACE
{: RESULT = new Integer(Axis.NAMESPACE); :}

| PARENT
{: RESULT = new Integer(Axis.PARENT); :}

| PRECEDING
{: RESULT = new Integer(Axis.PRECEDING); :}

| PRECEDINGSIBLING
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

| SELF
{: RESULT = new Integer(Axis.SELF); :};

```
AbbreviatedStep ::= DOT
        {: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

        | DDOT
        {: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};


FilterExpr ::=  PrimaryExpr:primary
        {: RESULT = primary; :}

        | PrimaryExpr:primary Predicates:pp
        {: RESULT = new FilterExpr(primary, pp); :};


PrimaryExpr ::= VariableReference:vr
        {: RESULT = vr; :}

        | LPAREN Expr:ex RPAREN
        {: RESULT = ex; :}

| Literal:string
{:
/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);
:}

        | INT:num
        {:
  long value = num.longValue();
  if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
 RESULT = new RealExpr(value);
  }
  else {
        if (num.doubleValue() == -0)
            RESULT = new RealExpr(num.doubleValue());
        else if (num.intValue() == 0)
```

```
                RESULT = new IntExpr(num.intValue());
            else if (num.doubleValue() == 0.0)
                RESULT = new RealExpr(num.doubleValue());
            else
                RESULT = new IntExpr(num.intValue());
        }
    :}

    | REAL:num
    {: RESULT = new RealExpr(num.doubleValue()); :}

    | FunctionCall:fc
    {: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
    {:
        // An empty qname prefix for a variable or parameter reference
        // should map to the null namespace and not the default URI.
        SyntaxTreeNode node = parser.lookupName(varName);

        if (node != null) {
            if (node instanceof Variable) {
                RESULT = new VariableRef((Variable)node);
            }
            else if (node instanceof Param) {
                RESULT = new ParameterRef((Param)node);
            }
            else {
                RESULT = new UnresolvedRef(varName);
            }
        }

        if (node == null) {
            RESULT = new UnresolvedRef(varName);
        }
    :};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
    {:

        if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
        else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    }
        else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, parser.EmptyArgs);
```

```
}
    else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
      RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
      RESULT = new BooleanExpr(true);
}
    else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
      RESULT = new BooleanExpr(false);
}
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
      RESULT = new NameCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
      RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
      RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
      RESULT = new PositionCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
      RESULT = new LastCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
      RESULT = new LocalNameCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
      RESULT = new NamespaceUriCall(fname);
}
    else {
      RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
  :}

  | FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
  {:
    if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
      RESULT = new ConcatCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
      RESULT = new NumberCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
  parser.setMultiDocument(true);
      RESULT = new DocumentCall(fname, argl);
}
```

```
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
     RESULT = new StringCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
     RESULT = new BooleanCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
     RESULT = new NameCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
     RESULT = new GenerateIdCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
     RESULT = new NotCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
     RESULT = new FormatNumberCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
     RESULT = new UnparsedEntityUriCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
     RESULT = new KeyCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
     RESULT = new KeyCall(fname, argl);
     parser.setHasIdCall(true);
}
    else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
     RESULT = new CeilingCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
     RESULT = new RoundCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
     RESULT = new FloorCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
     RESULT = new ContainsCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
     RESULT = new StringLengthCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
     RESULT = new StartsWithCall(fname, argl);
}
    else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
     RESULT = new FunctionAvailableCall(fname, argl);
```

```
    }
        else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
            RESULT = new ElementAvailableCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
            RESULT = new LocalNameCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
            RESULT = new LangCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
            RESULT = new NamespaceUriCall(fname, argl);
    }
        else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
            RESULT = new CastCall(fname, argl);
    }
    // Special case for extension function nodeset()
        else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
      parser.setCallsNodeset(true);  // implies MultiDOM
            RESULT = new FunctionCall(fname, argl);
    }
        else {
            RESULT = new FunctionCall(fname, argl);
    }
    :};


NonemptyArgumentList ::= Argument:arg
        {:
            Vector temp = new Vector();
            temp.addElement(arg);
            RESULT = temp;
        :}

        | Argument:arg COMMA NonemptyArgumentList:argl
        {: argl.insertElementAt(arg, 0); RESULT = argl; :};


FunctionName ::= QName:fname
        {:
    RESULT = fname;
 :};


VariableName ::= QName:vname
        {:
    RESULT = vname;
 :};


Argument ::= Expr:ex
        {: RESULT = ex; :};
```

```
NodeTest ::= NameTest:nt
    {: RESULT = nt; :}

    | NODE
    {: RESULT = new Integer(NodeTest.ANODE); :}

    | TEXT
    {: RESULT = new Integer(NodeTest.TEXT); :}

    | COMMENT
    {: RESULT = new Integer(NodeTest.COMMENT); :}

    | PIPARAM LPAREN Literal:l RPAREN
    {:
      QName name = parser.getQNameIgnoreDefaultNs("name");
      Expression exp = new EqualityExpr(Operators.EQ,
                          new NameCall(name),
                          new LiteralExpr(l));
      Vector predicates = new Vector();
      predicates.addElement(new Predicate(exp));
      RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    :}

    | PI
    {: RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
      {: RESULT = null; :}

      | QName:qn
      {: RESULT = qn; :};

QName ::= QNAME:qname
    {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

 | DIV
    {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
    {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

    | KEY
    {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

    | ANCESTOR
    {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}
```

```
| ANCESTORORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

| ATTRIBUTE
{: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

| CHILD
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| DESCENDANT
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

| DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

| FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

| FOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

| PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

| PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

| PRECEDINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup

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*/
// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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*/

/**

* Execute the proprietary document-location() function, which returns

* a node set of documents.

* @xsl.usage advanced

*/

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xpath/functions/FuncDoclocation.java

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*/

/*

* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $

*/

/*

* @author Jacek Ambroziak

* @author Santiago Pericas-Geertsen

* @author Morten Jorgensen

*

*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;

%%

```
%cup
%unicode
%class XPathLexer
%yyeof

%{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '\t' || c == '\r' || c == '\n'  || c == '\f');
    }

    /**
     * If symbol is not followed by '::' or '(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;

        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
        }

        // If end of buffer, can't disambiguate :(
        if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
        }

        // Return symbol if next token is '::' or '('
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
            yy_buffer[index] == '(') ?
            newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * name instead of a keyword (Jira-1912).
     */
    Symbol disambiguateOperator(int ss) throws Exception {
        switch (last) {
```

```
        case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
        }
        return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
```

```
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
        }
        return newSymbol(sym.MULT);
    }

    Symbol newSymbol(int ss) {
        last = ss;
        return new Symbol(ss);
    }

    Symbol newSymbol(int ss, String value) {
        last = ss;
        return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Long value) {
        last = ss;
        return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Double value) {
        last = ss;
        return new Symbol(ss, value);
    }
%}

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
```

\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"_"|{NCNameStartChar})({NCNameChar})*

NCNameChar={Letter}|{Digit}|"."|"-"|"_"|{CombiningChar}|{Extender}|{NCNameStartChar}| \u00B7 | [\u0300-

\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-
\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-
\uFFFD] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

```
"*"                { return disambiguateStar(); }
"/"                { return newSymbol(sym.SLASH); }
"+"                { return newSymbol(sym.PLUS); }
"-"                { return newSymbol(sym.MINUS); }
"div"              { return disambiguateOperator(sym.DIV); }
"mod"              { return disambiguateOperator(sym.MOD); }
"::"               { return newSymbol(sym.DCOLON); }
","                { return newSymbol(sym.COMMA); }
"@"                { return newSymbol(sym.ATSIGN); }
".."               { return newSymbol(sym.DDOT); }
"|"                { return newSymbol(sym.VBAR); }
"$"                { return newSymbol(sym.DOLLAR); }
"//"               { return newSymbol(sym.DSLASH); }
"="                { return newSymbol(sym.EQ); }
"!="               { return newSymbol(sym.NE); }
"<"                { return newSymbol(sym.LT); }
">"                { return newSymbol(sym.GT); }
"<="               { return newSymbol(sym.LE); }
">="               { return newSymbol(sym.GE); }
"id"               { return disambiguateAxisOrFunction(sym.ID); }
"key"              { return disambiguateAxisOrFunction(sym.KEY); }
"text()"           { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()"  { return newSymbol(sym.TEXT); }
"node()"           { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()"  { return newSymbol(sym.NODE); }
"comment()"        { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()"          { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"               { return disambiguateOperator(sym.OR); }
"and"              { return disambiguateOperator(sym.AND); }
"child"            { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"        { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"         { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
```

```
"descendant"            { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"    { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"             { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"     { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"             { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"                { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"             { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"     { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"                  { return disambiguateAxisOrFunction(sym.SELF); }
"["                     { return newSymbol(sym.LBRACK); }
"]"                     { return newSymbol(sym.RBRACK); }
"("                     { return newSymbol(sym.LPAREN); }
")"                     { return newSymbol(sym.RPAREN); }
"<PATTERN>"             { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"          { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"              { return newSymbol(sym.Literal,
       yytext().substring(1, yytext().length() - 1)); }
\'[^\']*\'              { return newSymbol(sym.Literal,
       yytext().substring(1, yytext().length() - 1)); }
{Digit}+                { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)?  { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+             { return newSymbol(sym.REAL, new Double(yytext())); }
"."                     { return newSymbol(sym.DOT); }
({NCName}":")?{NCName}  { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"*"       { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"      { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]             { /* ignore white space. */ }
.                       { throw new Exception(yytext()); }
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex
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```
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/
public class XSLProcessorVersion
{

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
   System.out.println(S_VERSION);
 }

 /**
  * Constant name of product.
  */
 public static final String PRODUCT = "Xalan";

 /**
  * Implementation Language.
  */
 public static final String LANGUAGE = "Java";

 /**
  * Major version number.
  * Version number. This changes only when there is a
  *        significant, externally apparent enhancement from
  *        the previous release. 'n' represents the n'th
  *        version.
  *
  *        Clients should carefully consider the implications
  *        of new versions as external interfaces and behaviour
  *        may have changed.
```

```
 */
public static final int VERSION = @version.VERSION@;


/**
 * Release Number.
 * Release number. This changes when:
 *          - a new set of functionality is to be added, eg,
 *            implementation of a new W3C specification.
 *          - API or behaviour change.
 *          - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;


/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *          drop applied to a specific release and contains
 *          fixes for defects reported. It maintains compatibility
 *          with the release and contains no API changes.
 *          When missing, it designates the final and complete
 *          development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;


/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *          a specific release. D01 is the first development drop
 *          of a new release.
 *
 *          Development drops are works in progress towards a
 *          compeleted, final release. A specific development drop
 *          may not completely implement all aspects of a new
 *          feature, which may take several development drops to
 *          complete. At the point of the final drop for the
 *          release, the D suffix will be omitted.
 *
 *          Each 'D' drops can contain functional enhancements as
 *          well as defect fixes. 'D' drops may not be as stable as
 *          the final releases.
 */
public static final int DEVELOPMENT = 0;


/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are identical to the Xerces project.</P>
 */
```

```
 public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
                    +VERSION+"."+RELEASE+"."
                    +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
                     : (""+MAINTENANCE));

}
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

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*/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_CN.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ko.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/XSLTCSource.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToIntTable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/LoadDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_hu.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToStringTableVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/StringArrayWrapper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sk.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLTC.java
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special circumstances.

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

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linked with the Library has the freedom and the wherewithal to run
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"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
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prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

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making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
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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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table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library
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the scope of this License.

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License instead of this License to a given copy of the Library. To do
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instead of to this License. (If a newer version than version 2 of the
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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.
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 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

  c) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
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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
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That's all there is to it!

1.97 python-setuptools 28.8.0
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