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Open Source Used In Unified Computing System (UCS) Server Firmware 4.1(3)

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1.3 readline 6.2

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1.4 libsoup 2.36.1

1.5 libatasmart 0.19

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From 730158700ea7a554c37f24bfbf5f4985f7280f3e Mon Sep 17 00:00:00 2001 From: Peter Korsgaard <jacmet@sunsite.dk> Date: Wed, 6 Feb 2013 14:07:02 +0100 Subject: [PATCH] strpool: don't mix up host/build flags when cross compiling

Submitted upstream as https://bugs.freedesktop.org/show_bug.cgi?id=60364

Commit b71035ce89 (build-sys: modernize build system) changed the strpool (which needs to be built for the build machine) compilation to use AM_CFLAGS / AM_LDFLAGS rather than CFLAGS / LDFLAGS. This is wrong, as The AM_ version is used TOGETHER with (the user supplied) CFLAGS/LDFLAGS, causing strpool to use both CFLAGS (for host) and CCFLAGS_FOR_BUILD (for build) flags, breaking cross compilation with errors like:

cc1: error: unrecognized command line option "-mabi=spe"

Instead overwrite the (user supplied) CFLAGS with the (user supplied) CFLAGS_FOR_BUILD (and similar for LDFLAGS) like we used to do.

Signed-off-by: Peter Korsgaard <jacmet@sunsite.dk>

strpool/Makefile.am | 4 ++-1 file changed, 2 insertions(+), 2 deletions(-)

diff --git a/strpool/Makefile.am b/strpool/Makefile.am index b041cea..5b335a5 100644 ---- a/strpool/Makefile.am +++ b/strpool/Makefile.am @@ -17,8 +17,8 @@ # <http://www.gnu.org/licenses/>.

CC = @CC_FOR_BUILD@ -AM_CFLAGS = @BUILD_CFLAGS@ -AM_LDFLAGS = @BUILD_LDFLAGS@

```
+CFLAGS = @BUILD_CFLAGS@
+LDFLAGS = @BUILD_LDFLAGS@
```

```
noinst_PROGRAMS = \
strpool
--
1.7.10.4
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1029501079_1588921252.13/0/libatasmart-tar/libatasmart/libatasmart-strpool-cross-flags.patch

1.6 sg3-utils 1.37-12.el7

1.6.1 Available under license :

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Douglas Gilbert 10th April 2012 /*

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1.7 attr 2.4.46 12.el7

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1.8 Izo 2.10

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1.9 pcre 8.32

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1.10 libxcursor 1.1.13

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1.11 libxcb 1.13 1.el7

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1.12 ipmi-tool 1.8.11

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1.13 gir1.2-gdkpixbuf-2.0 2.24.1

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1.15 efibootmgr 15 2.el7

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1.23 linux-kernel 4.4.20

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

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

*

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

* http://www.hypermall.com/

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

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

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

* and spelling mistakes.

- * 10/5/97 added code to handle PHY interrupts, disable PHY on
- * loss of link, and correctly re-enable PHY when link is
- * re-established. (put back CFG_PHYIE)

*

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

*

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

*

- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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* M. Welsh, 6 July 1996
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Christian Theiss for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de> Ralph Metzler <rjkm@metzlerbros.de> 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 procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de> for patching the cable card decoder driver

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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 single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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1.25 strace 4.12

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1.26 dropbear 2013.58

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1.27 mesa 18.3.4

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```
libfreedreno_layout = static_library(
'freedreno_layout',
[
 'fd6_layout.c',
 'freedreno_layout.c',
],
include_directories : [inc_freedreno, inc_common],
c_args : [c_vis_args, no_override_init_args],
cpp_args : [cpp_vis_args],
dependencies : idep_nir_headers,
build_by_default : false,
```

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1.28 libxext 1.3.1

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1.29 libxaw 1.0.7

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

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

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

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

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1.34 glibc 2.17-196.el7

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*

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*

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

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

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

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1.36 sqlite 3.7.14.1

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1.38 pciutils 3.5.1 1.el7

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1.39 bc 1.06

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#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...)); _PROTOTYPE(void rt_error, (char *mesg ,...)); _PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num_zero_;
bc_num_one_;
bc_num_two_;

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)

```
int length, scale;
{
bc_num temp;
if (_bc_Free_list != NULL) {
 temp = _bc_Free_list;
 _bc_Free_list = temp->n_next;
} else {
 temp = (bc_num) malloc (sizeof(bc_struct));
 if (temp == NULL) bc_out_of_memory ();
}
temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = (char *) malloc (length+scale);
if (temp->n_ptr == NULL) bc_out_of_memory();
temp->n_value = temp->n_ptr;
memset (temp->n_ptr, 0, length+scale);
return temp;
}
```

```
/* "Frees" a bc_num NUM. Actually decreases reference count and only frees the storage if reference count is zero. */
```

```
void
```

```
bc_free_num (num)
    bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n_refs--;
    if ((*num)->n_refs == 0) {
        if ((*num)->n_ptr)
            free ((*num)->n_ptr);
            (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}
```

```
/* Intitialize the number package! */
```

```
void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_ = bc_new_num (1,0);
```

```
_one_->n_value[0] = 1;
_two_ = bc_new_num (1,0);
_two_->n_value[0] = 2;
}
```

/* Make a copy of a number! Just increments the reference count! */

```
bc_num
bc_copy_num (num)
bc_num num;
{
    num->n_refs++;
    return num;
}
```

```
/* Initialize a number NUM by making it a copy of zero. */
```

```
void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}
```

/* For many things, we may have leading zeros in a number NUM. _bc_rm_leading_zeros just moves the data "value" pointer to the correct place and adjusts the length. */

```
static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
    /* We can move n_value to point to the first non zero digit! */
    while (*num->n_value == 0 && num->n_len > 1) {
        num->n_value++;
        num->n_len--;
    }
}
```

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)

```
bc_num n1, n2;
  int use_sign;
  int ignore_last;
{
char *n1ptr, *n2ptr;
int count;
/* First, compare signs. */
if (use_sign && n1->n_sign != n2->n_sign)
 {
  if (n1->n_sign == PLUS)
return (1); /* Positive N1 > Negative N2 */
   else
return (-1); /* Negative N1 < Positive N1 */
  }
/* Now compare the magnitude. */
if (n1 \rightarrow n\_len != n2 \rightarrow n\_len)
 {
  if (n1 \rightarrow n\_len > n2 \rightarrow n\_len)
{
 /* Magnitude of n1 > n2. */
 if (!use_sign \parallel n1->n_sign == PLUS)
   return (1);
 else
   return (-1);
}
   else
{
 /* Magnitude of n1 < n2. */
 if (!use_sign \parallel n1->n_sign == PLUS)
  return (-1);
 else
   return (1);
}
 }
/* If we get here, they have the same number of integer digits.
  check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;
while ((count > 0) && (*n1ptr == *n2ptr))
 {
   n1ptr++;
   n2ptr++;
   count--;
```

```
}
if (ignore_last && count == 1 && n1 \rightarrow n_scale == n2 \rightarrow n_scale)
 return (0);
if (count != 0)
 {
  if (*n1ptr > *n2ptr)
{
 /* Magnitude of n1 > n2. */
if (!use_sign || n1->n_sign == PLUS)
  return (1);
 else
  return (-1);
}
  else
{
/* Magnitude of n1 < n2. */
 if (!use_sign \parallel n1->n_sign == PLUS)
  return (-1);
 else
  return (1);
}
 }
/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
 {
  if (n1 - n_scale > n2 - n_scale)
{
 for (count = n1->n_scale-n2->n_scale; count>0; count--)
  if (*n1ptr++!=0)
   {
/* Magnitude of n1 > n2. */
if (!use_sign || n1->n_sign == PLUS)
 return (1);
else
 return (-1);
   }
}
  else
{
 for (count = n2->n_scale-n1->n_scale; count>0; count--)
  if (*n2ptr++ != 0)
   {
/* Magnitude of n1 < n2. */
if (!use_sign || n1->n_sign == PLUS)
 return (-1);
else
 return (1);
```

```
}
}
/* They must be equal! */
```

```
return (0);
```

/* This is the "user callable" routine to compare numbers N1 and N2. */

```
int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}
```

/* In some places we need to check if the number is negative. */

```
char
```

```
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}
```

/* In some places we need to check if the number NUM is zero. */

```
char
```

```
bc_is_zero (num)
    bc_num num;
{
    int count;
    char *nptr;
    /* Quick check. */
    if (num == _zero_) return TRUE;
    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;
```

```
/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;
```

```
if (count != 0)
return FALSE;
```

```
else
return TRUE;
}
```

```
/* In some places we need to check if the number NUM is almost zero.
Specifically, all but the last digit is 0 and the last digit is 1.
Last digit is defined by scale. */
```

```
char
```

```
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
```

char *nptr;

```
/* Error checking */
if (scale > num->n_scale)
scale = num->n_scale;
```

```
/* Initialize */
count = num->n_len + scale;
nptr = num->n_value;
```

```
/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;
```

```
if (count != 0 && (count != 1 || *--nptr != 1))
return FALSE;
else
return TRUE;
```

```
}
```

```
/* Perform addition: N1 is added to N2 and the value is returned. The signs of N1 and N2 are ignored.SCALE_MIN is to set the minimum scale of the result. */
```

```
static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;
```

```
/* Prepare sum. */
sum_scale = MAX (n1->n_scale, n2->n_scale);
sum_digits = MAX (n1 -> n_len, n2 -> n_len) + 1;
sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));
/* Zero extra digits made by scale min. */
if (scale_min > sum_scale)
 {
  sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
  for (count = scale_min - sum_scale; count > 0; count--)
*sumptr++ = 0;
 }
/* Start with the fraction part. Initialize the pointers. */
n1bytes = n1->n_scale;
n2bytes = n2 - n_scale;
n1ptr = (char *) (n1 -> n value + n1 -> n len + n1bytes - 1);
n2ptr = (char *) (n2 - >n_value + n2 - >n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);
/* Add the fraction part. First copy the longer fraction.*/
if (n1bytes != n2bytes)
 {
  if (n1bytes > n2bytes)
while (n1bytes>n2bytes)
 { *sumptr-- = *n1ptr--; n1bytes--;}
  else
while (n2bytes>n1bytes)
 { *sumptr-- = *n2ptr--; n2bytes--;}
 }
/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) \&\& (n2bytes > 0))
 {
  *sumptr = *n1ptr-- + *n2ptr-- + carry;
  if (*sumptr > (BASE-1))
{
 carry = 1;
 *sumptr -= BASE;
}
  else
carry = 0;
  sumptr--;
  n1bytes--;
```

```
n2bytes--;
 }
/* Now add carry the longer integer part. */
if (n1bytes == 0)
 { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes --> 0)
 {
  *sumptr = *n1ptr-- + carry;
  if (*sumptr > (BASE-1))
{
  carry = 1;
  *sumptr -= BASE;
 }
  else
carry = 0;
  sumptr--;
 }
/* Set final carry. */
if (carry == 1)
 *sumptr += 1;
/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
}
```

```
/* Perform subtraction: N2 is subtracted from N1 and the value is returned. The signs of N1 and N2 are ignored. Also, N1 is assumed to be larger than N2. SCALE_MIN is the minimum scale of the result. */
```

```
static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;
```

```
/* Allocate temporary storage. */
diff_len = MAX (n1->n_len, n2->n_len);
diff_scale = MAX (n1->n_scale, n2->n_scale);
```

```
min\_len = MIN (n1 ->n\_len, n2 ->n\_len);
min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));
/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
 {
  diffptr = (char *) (diff->n_value + diff_len + diff_scale);
  for (count = scale_min - diff_scale; count > 0; count--)
*diffptr++ = 0;
 }
/* Initialize the subtract. */
n1ptr = (char *) (n1 - n_value + n1 - n_en + n1 - n_scale - 1);
n2ptr = (char *) (n2 - n_value + n2 - n_en + n2 - n_scale - 1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);
/* Subtract the numbers. */
borrow = 0:
/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
 {
  /* n1 has the longer scale */
  for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
 }
else
 {
  /* n2 has the longer scale */
  for (count = n2->n_scale - min_scale; count > 0; count--)
{
 val = - *n2ptr-- - borrow;
if (val < 0)
  {
   val += BASE;
   borrow = 1;
  }
 else
  borrow = 0;
 *diffptr-- = val;
}
 }
/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
 {
```

```
val = *n1ptr-- - *n2ptr-- - borrow;
  if (val < 0)
{
 val += BASE;
 borrow = 1;
}
   else
borrow = 0;
   *diffptr-- = val;
 }
/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
 {
   for (count = diff_len - min_len; count > 0; count--)
{
 val = *n1ptr-- - borrow;
 if (val < 0)
   {
    val += BASE;
   borrow = 1;
   }
 else
  borrow = 0;
 *diffptr-- = val;
}
 }
/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;
}
```

/* Here is the full subtract routine that takes care of negative numbers. N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN is the minimum scale for the result. */

```
void
```

```
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;
```

```
if (n1->n_sign != n2->n_sign)
```

```
{
   diff = _bc_do_add (n1, n2, scale_min);
   diff->n_sign = n1->n_sign;
  }
else
  {
   /* subtraction must be done. */
   /* Compare magnitudes. */
   cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
   switch (cmp res)
{
case -1:
 /* n1 is less than n2. subtract n1 from n2. */
  diff = _bc_do_sub (n2, n1, scale_min);
  diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
  break:
case 0:
  /* They are equal! return zero! */
  res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
  diff = bc_new_num (1, res_scale);
  memset (diff->n_value, 0, res_scale+1);
  break:
case 1:
  /* n2 is less than n1, subtract n2 from n1. */
  diff = _bc_do_sub (n1, n2, scale_min);
  diff->n_sign = n1->n_sign;
  break;
}
  }
/* Clean up and return. */
bc_free_num (result);
*result = diff;
}
/* Here is the full add routine that takes care of negative numbers.
 N1 is added to N2 and the result placed into RESULT. SCALE_MIN
 is the minimum scale for the result. */
void
bc_add (n1, n2, result, scale_min)
  bc_num n1, n2, *result;
  int scale_min;
{
bc_num sum = NULL;
int cmp_res;
int res_scale;
```

```
if (n1 \rightarrow n_sign == n2 \rightarrow n_sign)
 {
  sum = _bc_do_add (n1, n2, scale_min);
   sum->n_sign = n1->n_sign;
  }
else
  {
   /* subtraction must be done. */
  cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
   switch (cmp_res)
{
case -1:
 /* n1 is less than n2, subtract n1 from n2. */
 sum = _bc_do_sub (n2, n1, scale_min);
 sum->n_sign = n2->n_sign;
 break;
case 0:
 /* They are equal! return zero with the correct scale! */
 res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
 sum = bc new num (1, res scale);
 memset (sum->n_value, 0, res_scale+1);
 break;
case 1:
 /* n2 is less than n1, subtract n2 from n1. */
 sum = _bc_do_sub (n1, n2, scale_min);
 sum->n_sign = n1->n_sign;
}
  }
/* Clean up and return. */
bc_free_num (result);
*result = sum;
}
/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif
int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4
/* Multiply utility routines */
```

static bc_num

```
new_sub_num (length, scale, value)
  int length, scale;
  char *value;
{
bc_num temp;
if (_bc_Free_list != NULL) {
 temp = _bc_Free_list;
 _bc_Free_list = temp->n_next;
} else {
 temp = (bc_num) malloc (sizeof(bc_struct));
 if (temp == NULL) bc_out_of_memory ();
}
temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = NULL;
temp->n_value = value;
return temp;
}
static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
    int full_scale)
{
char *n1ptr, *n2ptr, *pvptr;
char *n1end, *n2end; /* To the end of n1 and n2. */
int indx, sum, prodlen;
prodlen = n1len+n2len+1;
*prod = bc_new_num (prodlen, 0);
n1end = (char *) (n1 - >n_value + n1len - 1);
n2end = (char *) (n2 - >n_value + n2len - 1);
pvptr = (char *) ((*prod)->n_value + prodlen - 1);
sum = 0;
/* Here is the loop... */
for (indx = 0; indx < prodlen-1; indx++)
 {
   n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
   n2ptr = (char *) (n2end - MIN(indx, n2len-1));
   while ((n1ptr \ge n1 \ge n_value) && (n2ptr \le n2end))
sum += *n1ptr-- * *n2ptr++;
   *pvptr-- = sum % BASE;
   sum = sum / BASE;
```

```
}
*pvptr = sum;
}
```

```
/* A special adder/subtractor for the recursive divide and conquer
 multiply algorithm. Note: if sub is called, accum must
 be larger that what is being subtracted. Also, accum and val
 must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
signed char *accp, *valp;
int count, carry;
count = val->n_len;
if (val > n_value[0] == 0)
 count--;
assert (accum->n_len+accum->n_scale >= shift+count);
/* Set up pointers and others */
accp = (signed char *)(accum->n_value +
  accum->n_len + accum->n_scale - shift - 1);
valp = (signed char *)(val->n_value + val->n_len - 1);
carry = 0;
if (sub) {
 /* Subtraction, carry is really borrow. */
 while (count--) {
   *accp -= *valp-- + carry;
   if (*accp < 0) {
carry = 1;
    *accp-- += BASE;
   } else {
carry = 0;
accp--;
   }
  }
 while (carry) {
   *accp -= carry;
   if (*accp < 0)
*accp-- += BASE;
   else
carry = 0;
 }
} else {
 /* Addition */
 while (count--) {
```

```
*accp += *valp-- + carry;
   if (*accp > (BASE-1)) {
carry = 1;
    *accp-- -= BASE;
   } else {
carry = 0;
accp--;
   }
  }
  while (carry) {
   *accp += carry;
   if (*accp > (BASE-1))
*accp-- -= BASE;
   else
carry = 0;
  }
}
}
/* Recursive divide and conquer multiply algorithm.
 Based on
 Let u = u0 + u1^{*}(b^{n})
 Let v = v0 + v1*(b^n)
 Then uv = (B^2n+B^n)^*u1^*v1 + B^n^*(u1-u0)^*(v0-v1) + (B^n+1)^*u0^*v0
 B is the base of storage, number of digits in u1,u0 close to equal.
*/
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
   int full_scale)
{
bc_num u0, u1, v0, v1;
int u0len, v0len;
bc_num m1, m2, m3, d1, d2;
int n, prodlen, m1zero;
int d1len, d2len;
/* Base case? */
if ((ulen+vlen) < mul_base_digits
   || ulen < MUL_SMALL_DIGITS
   || vlen < MUL_SMALL_DIGITS ) {
  _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
  return;
}
/* Calculate n -- the u and v split point in digits. */
n = (MAX(ulen, vlen)+1) / 2;
```

```
/* Split u and v. */
if (ulen < n) {
 u1 = bc_copy_num (_zero_);
 u0 = new_sub_num (ulen,0, u->n_value);
} else {
 u1 = new_sub_num (ulen-n, 0, u->n_value);
 u0 = new\_sub\_num (n, 0, u->n\_value+ulen-n);
}
if (v len < n) {
 v1 = bc_copy_num (_zero_);
v0 = new_sub_num (vlen,0, v->n_value);
} else {
 v1 = new_sub_num (vlen-n, 0, v->n_value);
 v0 = new_sub_num (n, 0, v->n_value+vlen-n);
 }
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0 ->n len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;
m1zero = bc_is_zero(u1) \parallel bc_is_zero(v1);
```

```
/* Calculate sub results ... */
```

bc_init_num(&d1); bc_init_num(&d2); bc_sub (u1, u0, &d1, 0); d1len = d1->n_len; bc_sub (v0, v1, &d2, 0); d2len = d2->n_len;

```
/* Do recursive multiplies and shifted adds. */
if (m1zero)
m1 = bc_copy_num (_zero_);
else
_bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);
```

```
if (bc_is_zero(d1) || bc_is_zero(d2))
m2 = bc_copy_num (_zero_);
else
```

_bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

```
if (bc_is_zero(u0) || bc_is_zero(v0))
m3 = bc_copy_num (_zero_);
else
```

```
/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);
if (!m1zero) {
 _bc_shift_addsub (*prod, m1, 2*n, 0);
 _bc_shift_addsub (*prod, m1, n, 0);
}
_bc_shift_addsub (*prod, m3, n, 0);
_bc_shift_addsub (*prod, m3, 0, 0);
_bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);
/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}
/* The multiply routine. N2 times N1 is put int PROD with the scale of
 the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
 */
void
bc_multiply (n1, n2, prod, scale)
  bc_num n1, n2, *prod;
  int scale;
{
bc_num pval;
int len1, len2;
int full_scale, prod_scale;
/* Initialize things. */
len1 = n1 - n_len + n1 - s_cale;
len2 = n2 \rightarrow n_len + n2 \rightarrow n_scale;
full\_scale = n1 - n\_scale + n2 - n\_scale;
prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));
/* Do the multiply */
_bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);
```

```
/* Assign to prod and clean up the number. */
pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
pval->n_value = pval->n_ptr;
pval->n_len = len2 + len1 + 1 - full_scale;
pval->n_scale = prod_scale;
_bc_rm_leading_zeros (pval);
if (bc_is_zero (pval))
    pval->n_sign = PLUS;
bc_free_num (prod);
*prod = pval;
}
```

```
/* Some utility routines for the divide: First a one digit multiply.
 NUM (with SIZE digits) is multiplied by DIGIT and the result is
 placed into RESULT. It is written so that NUM and RESULT can be
 the same pointers. */
static void
_one_mult (num, size, digit, result)
  unsigned char *num;
  int size, digit;
  unsigned char *result;
{
int carry, value;
unsigned char *nptr, *rptr;
if (digit == 0)
 memset (result, 0, size);
else
  {
   if (digit == 1)
memcpy (result, num, size);
   else
{
 /* Initialize */
 nptr = (unsigned char *) (num+size-1);
 rptr = (unsigned char *) (result+size-1);
 carry = 0;
  while (size-- > 0)
   {
    value = *nptr-- * digit + carry;
    *rptr-- = value % BASE;
    carry = value / BASE;
```

```
if (carry != 0) *rptr = carry;
}
```

}

```
}
}
```

```
/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */
```

int

```
bc_divide (n1, n2, quot, scale)
  bc_num n1, n2, *quot;
  int scale:
{
bc_num qval;
unsigned char *num1, *num2;
unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
int scale1, val;
unsigned int len1, len2, scale2, qdigits, extra, count;
unsigned int qdig, qguess, borrow, carry;
unsigned char *mval;
char zero:
unsigned int norm;
/* Test for divide by zero. */
if (bc_is_zero (n2)) return -1;
/* Test for divide by 1. If it is we must truncate. */
if (n2 - n \text{ scale} = = 0)
 {
  if (n2 - n_len = 1 \&\& n2 - n_value = 1)
{
 qval = bc_new_num (n1->n_len, scale);
 qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
 memset (&qval->n_value[n1->n_len],0,scale);
 memcpy (qval->n_value, n1->n_value,
  n1->n_len + MIN(n1->n_scale,scale));
 bc_free_num (quot);
 *quot = qval;
}
 }
/* Set up the divide. Move the decimal point on n1 by n2's scale.
  Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2 \rightarrow n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;
```

```
len1 = n1 \rightarrow n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
 extra = scale - scale1;
else
 extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);
len2 = n2 - >n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
 {
  n2ptr++;
  len2--;
 }
/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
 {
  qdigits = scale+1;
  zero = TRUE;
 }
else
 {
  zero = FALSE;
  if (len2>len1)
qdigits = scale+1; /* One for the zero integer part. */
  else
qdigits = len1-len2+scale+1;
 }
/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);
/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();
/* Now for the full divide algorithm. */
if (!zero)
```

```
{
  /* Normalize */
  norm = 10 / ((int)*n2ptr + 1);
  if (norm != 1)
{
 _one_mult (num1, len1+scale1+extra+1, norm, num1);
 _one_mult (n2ptr, len2, norm, n2ptr);
}
  /* Initialize divide loop. */
  qdig = 0;
  if (len 2 > len 1)
qptr = (unsigned char *) qval->n_value+len2-len1;
  else
qptr = (unsigned char *) qval->n_value;
  /* Loop */
  while (qdig \leq = len1 + scale - len2)
{
 /* Calculate the quotient digit guess. */
 if (*n2ptr == num1[qdig])
  qguess = 9;
 else
  qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;
 /* Test qguess. */
 if (n2ptr[1]*qguess >
   (num1[qdig]*10 + num1[qdig+1] - n2ptr*qguess)*10
    + num1[qdig+2])
  {
   qguess--;
   /* And again. */
   if (n2ptr[1]*qguess >
 (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
 + num1[qdig+2])
qguess--;
  }
 /* Multiply and subtract. */
 borrow = 0;
 if (qguess != 0)
  {
   *mval = 0;
   _one_mult (n2ptr, len2, qguess, mval+1);
   ptr1 = (unsigned char *) num1+qdig+len2;
   ptr2 = (unsigned char *) mval+len2;
   for (count = 0; count < len2+1; count++)
{
```

```
val = (int) *ptr1 - (int) *ptr2-- - borrow;
 if (val < 0)
  {
    val += 10;
   borrow = 1;
   }
 else
  borrow = 0;
 *ptr1-- = val;
}
  }
 /* Test for negative result. */
 if (borrow == 1)
  {
   qguess--;
   ptr1 = (unsigned char *) num1+qdig+len2;
   ptr2 = (unsigned char *) n2ptr+len2-1;
   carry = 0;
   for (count = 0; count < len2; count++)
{
 val = (int) *ptr1 + (int) *ptr2-- + carry;
 if (val > 9)
  {
   val -= 10;
   carry = 1;
   }
 else
  carry = 0;
 *ptr1-- = val;
}
   if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
  }
 /* We now know the quotient digit. */
 *qptr++ = qguess;
 qdig++;
}
 }
/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;
```

```
/* Clean up temporary storage. */
```

```
free (mval);
free (num1);
free (num2);
return 0; /* Everything is OK. */
}
/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted.
*/
```

```
int
```

```
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
```

int rscale;

```
/* Check for correct numbers. */
if (bc_is_zero (num2)) return -1;
```

```
/* Calculate final scale. */
rscale = MAX (num1->n_scale, num2->n_scale+scale);
bc_init_num(&temp);
```

```
/* Calculate it. */
bc_divide (num1, num2, &temp, scale);
if (quot)
quotient = bc_copy_num (temp);
bc_multiply (temp, num2, &temp, rscale);
bc_sub (num1, temp, rem, rscale);
bc_free_num (&temp);
```

```
if (quot)
{
    bc_free_num (quot);
    *quot = quotient;
}
return 0; /* Everything is OK. */
```

```
}
```

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the

result in RESULT. */

```
int
bc_modulo (num1, num2, result, scale)
  bc_num num1, num2, *result;
  int scale;
{
return bc_divmod (num1, num2, NULL, result, scale);
}
/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
 placed in RESULT. If a EXPO is not an integer,
 only the integer part is used. */
int
bc_raisemod (base, expo, mod, result, scale)
  bc_num base, expo, mod, *result;
  int scale;
{
bc_num power, exponent, parity, temp;
int rscale;
/* Check for correct numbers. */
if (bc is zero(mod)) return -1;
if (bc_is_neg(expo)) return -1;
/* Set initial values. */
power = bc_copy_num (base);
exponent = bc_copy_num (expo);
temp = bc_copy_num (_one_);
bc_init_num(&parity);
/* Check the base for scale digits. */
if (base->n_scale != 0)
   bc_rt_warn ("non-zero scale in base");
/* Check the exponent for scale digits. */
if (exponent->n_scale != 0)
  {
  bc_rt_warn ("non-zero scale in exponent");
  bc_divide (exponent, _one_, &exponent, 0); /*truncate */
  }
/* Check the modulus for scale digits. */
if (mod > n\_scale != 0)
   bc_rt_warn ("non-zero scale in modulus");
```

```
/* Do the calculation. */
```

```
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
  {
   (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
   if ( !bc_is_zero(parity) )
{
 bc_multiply (temp, power, &temp, rscale);
 (void) bc_modulo (temp, mod, &temp, scale);
}
  bc_multiply (power, power, &power, rscale);
  (void) bc_modulo (power, mod, &power, scale);
  }
/* Assign the value. */
bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}
/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.
 Maximum exponent is LONG_MAX. If a NUM2 is not an integer,
 only the integer part is used. */
void
bc_raise (num1, num2, result, scale)
  bc_num num1, num2, *result;
  int scale;
{
 bc_num temp, power;
 long exponent;
 int rscale;
 int pwrscale;
 int calcscale;
 char neg;
 /* Check the exponent for scale digits and convert to a long. */
 if (num2 - n_scale != 0)
  bc_rt_warn ("non-zero scale in exponent");
 exponent = bc_num2long (num2);
 if (exponent == 0 && (num2->n_len > 1 \parallel num2->n_value[0] != 0))
   bc_rt_error ("exponent too large in raise");
 /* Special case if exponent is a zero. */
 if (exponent == 0)
  {
```

```
bc_free_num (result);
  *result = bc_copy_num (_one_);
  return;
 }
/* Other initializations. */
if (exponent < 0)
 {
  neg = TRUE;
  exponent = -exponent;
  rscale = scale;
 }
else
 {
  neg = FALSE;
  rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
 }
/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
 {
  pwrscale = 2*pwrscale;
  bc_multiply (power, power, &power, pwrscale);
  exponent = exponent >> 1;
 }
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;
/* Do the calculation. */
while (exponent > 0)
 {
  pwrscale = 2*pwrscale;
  bc_multiply (power, power, &power, pwrscale);
  if ((exponent & 1) == 1) {
calcscale = pwrscale + calcscale;
bc_multiply (temp, power, &temp, calcscale);
  }
  exponent = exponent >> 1;
 }
/* Assign the value. */
if (neg)
 {
  bc_divide (_one_, temp, result, rscale);
  bc_free_num (&temp);
```

```
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
    (*result)->n_scale = rscale;
    }
    bc_free_num (&power);
}
```

```
/* Take the square root NUM and return it in NUM with SCALE digits
  after the decimal place. */
int
bc_sqrt (num, scale)
```

bc_num *num; int scale; { int rscale, cmp_res, done; int cscale; bc_num guess, guess1, point5, diff; /* Initial checks. */ cmp_res = bc_compare (*num, _zero)

```
cmp_res = bc_compare (*num, _zero_);
if (cmp\_res < 0)
 return 0; /* error */
else
 {
  if (cmp\_res == 0)
{
 bc_free_num (num);
 *num = bc_copy_num (_zero_);
 return 1;
}
 }
cmp_res = bc_compare (*num, _one_);
if (cmp\_res == 0)
 {
  bc_free_num (num);
  *num = bc_copy_num (_one_);
  return 1;
 }
/* Initialize the variables. */
```

```
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
```

```
bc_init_num(&diff);
point5 = bc_new_num(1,1);
point5->n_value[1] = 5;
/* Calculate the initial guess. */
if (cmp\_res < 0)
 {
  /* The number is between 0 and 1. Guess should start at 1. */
  guess = bc_copy_num (_one_);
  cscale = (*num)->n_scale;
 }
else
 {
  /* The number is greater than 1. Guess should start at 10^{(exp/2)}. */
  bc_int2num (&guess,10);
  bc_int2num (&guess1,(*num)->n_len);
  bc_multiply (guess1, point5, &guess1, 0);
  guess1->n_scale = 0;
  bc_raise (guess, guess1, &guess, 0);
  bc_free_num (&guess1);
  cscale = 3;
 }
/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
 {
  bc_free_num (&guess1);
  guess1 = bc_copy_num (guess);
  bc_divide (*num, guess, &guess, cscale);
  bc_add (guess, guess1, &guess, 0);
  bc_multiply (guess, point5, &guess, cscale);
  bc_sub (guess, guess1, &diff, cscale+1);
  if (bc_is_near_zero (diff, cscale))
{
 if (cscale < rscale+1)
  cscale = MIN (cscale*3, rscale+1);
 else
  done = TRUE;
}
 }
/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess,_one_,num,rscale);
bc_free_num (&guess);
```

```
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}
```

/* The following routines provide output for bcd numbers package using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
 long digit;
 struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */ static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly SIZE characters must be output for the value VAL. If SPACE is non-zero, we must output one space before the number. OUT_CHAR is the actual routine for writing the characters. */

```
void
bc_out_long (val, size, space, out_char)
  long val;
  int size, space;
#ifdef __STDC__
  void (*out_char)(int);
#else
  void (*out_char)();
#endif
{
char digits[40];
int len, ix;
if (space) (*out_char) (' ');
sprintf (digits, "%ld", val);
len = strlen (digits);
while (size > len)
 {
   (*out_char) ('0');
   size--;
  }
for (ix=0; ix < len; ix++)
 (*out_char) (digits[ix]);
```

}

```
/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
 as the routine to do the actual output of the characters. */
void
bc_out_num (num, o_base, out_char, leading_zero)
  bc_num num;
  int o_base;
#ifdef STDC
  void (*out_char)(int);
#else
  void (*out_char)();
#endif
  int leading_zero;
{
char *nptr;
int index, fdigit, pre_space;
stk_rec *digits, *temp;
bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;
/* The negative sign if needed. */
if (num->n_sign == MINUS) (*out_char) ('-');
/* Output the number. */
if (bc_is_zero (num))
  (*out_char) ('0');
else
  if (o_base == 10)
   {
/* The number is in base 10, do it the fast way. */
nptr = num->n_value;
if (num > n_len > 1 || *nptr != 0)
  for (index=num->n_len; index>0; index--)
   (*out_char) (BCD_CHAR(*nptr++));
else
  nptr++;
if (leading_zero && bc_is_zero (num))
  (*out_char) ('0');
/* Now the fraction. */
if (num->n_scale > 0)
  {
   (*out_char) ('.');
   for (index=0; index<num->n_scale; index++)
    (*out_char) (BCD_CHAR(*nptr++));
  }
```

```
}
else
{
/* special case ... */
if (leading_zero && bc_is_zero (num))
 (*out_char) ('0');
```

```
/* The number is some other base. */
digits = NULL;
bc_init_num (&int_part);
bc_divide (num, _one_, &int_part, 0);
bc_init_num (&frac_part);
bc_init_num (&cur_dig);
bc_init_num (&cur_dig);
bc_sub (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_init_num (&base, o_base);
bc_init_num (&max_o_digit);
bc_int2num (&max_o_digit, o_base-1);
```

```
/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
 {
  bc_modulo (int_part, base, &cur_dig, 0);
  temp = (stk_rec *) malloc (sizeof(stk_rec));
  if (temp == NULL) bc_out_of_memory();
  temp->digit = bc_num2long (cur_dig);
  temp->next = digits;
  digits = temp;
  bc_divide (int_part, base, &int_part, 0);
 }
/* Print the digits on the stack. */
if (digits != NULL)
 {
  /* Output the digits. */
  while (digits != NULL)
   {
temp = digits;
digits = digits->next;
if (o_base <= 16)
 (*out_char) (ref_str[ (int) temp->digit]);
else
 bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
free (temp);
```

```
}
  }
/* Get and print the digits of the fraction part. */
if (num -> n_scale > 0)
  {
   (*out char) ('.');
   pre_space = 0;
   t_num = bc_copy_num (_one_);
   while (t_num->n_len <= num->n_scale) {
    bc_multiply (frac_part, base, &frac_part, num->n_scale);
    fdigit = bc_num2long (frac_part);
    bc_int2num (&int_part, fdigit);
    bc_sub (frac_part, int_part, &frac_part, 0);
    if (o_base <= 16)
 (*out_char) (ref_str[fdigit]);
    else {
 bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
 pre_space = 1;
    }
    bc_multiply (t_num, base, &t_num, 0);
   }
   bc_free_num (&t_num);
  }
/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
   }
}
/* Convert a number NUM to a long. The function returns only the integer
 part of the number. For numbers that are too large to represent as
 a long, this function returns a zero. This can be detected by checking
 the NUM for zero after having a zero returned. */
long
bc_num2long (num)
  bc_num num;
{
long val;
char *nptr;
int index;
/* Extract the int value, ignore the fraction. */
val = 0;
```

```
nptr = num->n_value;
for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
  val = val*BASE + *nptr++;
/* Check for overflow. If overflow, return zero. */
if (index>0) val = 0;
if (val < 0) val = 0;
/* Return the value. */
if (num->n_sign == PLUS)
  return (val);
else
  return (-val);
}
/* Convert an integer VAL to a bc number NUM. */
void
bc_int2num (num, val)
  bc_num *num;
  int val;
{
char buffer[30];
char *bptr, *vptr;
int ix = 1;
char neg = 0;
/* Sign. */
if (val < 0)
  {
```

```
neg = 1;
val = -val;
}
/* Get things going. */
bptr = buffer;
*bptr++ = val % BASE;
val = val / BASE;
/* Extract remaining digits. */
```

```
while (val != 0)
{
 *bptr++ = val % BASE;
 val = val / BASE;
 ix++; /* Count the digits. */
}
```

```
/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;
/* Assign the digits. */
vptr = (*num)->n value;
while (ix - > 0)
  *vptr++ = *--bptr;
}
/* Convert a numbers to a string. Base 10 only.*/
char
*num2str (num)
   bc_num num;
{
char *str, *sptr;
char *nptr;
int index, signch;
/* Allocate the string memory. */
signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
if (num -> n scale > 0)
  str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
else
  str = (char *) malloc (num->n_len + 1 + signch);
if (str == NULL) bc_out_of_memory();
/* The negative sign if needed. */
sptr = str;
if (signch) *sptr++ = '-';
/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
  *sptr++ = BCD_CHAR(*nptr++);
/* Now the fraction. */
if (num->n_scale > 0)
  {
   *sptr++ = '.';
   for (index=0; index<num->n_scale; index++)
*sptr++ = BCD_CHAR(*nptr++);
  }
/* Terminate the string and return it! */
*sptr = '\0';
```

```
return (str);
}
/* Convert strings to bc numbers. Base 10 only.*/
void
bc_str2num (num, str, scale)
  bc_num *num;
  char *str;
  int scale;
{
int digits, strscale;
char *ptr, *nptr;
char zero int;
/* Prepare num. */
bc_free_num (num);
/* Check for valid number and count digits. */
ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ( (*ptr == '+') || (*ptr == '-')) ptr++; /* Sign */
while (*ptr == '0') ptr++; /* Skip leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++; /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '\0') || (digits+strscale == 0))
 {
   *num = bc_copy_num (_zero_);
   return;
  }
/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
 {
   zero_int = TRUE;
  digits = 1;
  }
*num = bc_new_num (digits, strscale);
/* Build the whole number. */
ptr = str;
if (*ptr == '-')
 {
   (*num)->n_sign = MINUS;
   ptr++;
```

```
}
else
  {
   (*num)->n_sign = PLUS;
   if (*ptr == '+') ptr++;
  }
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
  {
   *nptr++=0;
   digits = 0;
  }
for (;digits > 0; digits--)
  *nptr++ = CH_VAL(*ptr++);
/* Build the fractional part. */
if (strscale > 0)
  {
   ptr++; /* skip the decimal point! */
   for (;strscale > 0; strscale--)
*nptr++ = CH_VAL(*ptr++);
  }
}
/* pn prints the number NUM in base 10. */
static void
out_char (int c)
{
putchar(c);
}
void
pn (num)
  bc_num num;
{
bc_out_num (num, 10, out_char, 0);
out_char ('\n');
}
/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
  char *name;
```

```
unsigned char *num;
int len;
{
int i;
printf ("%s=", name);
for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
printf ("\n");
}
```

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

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

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1.40 libcap 2.22 9.el7

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1.41 gtk 3.22.10-5.el7_4

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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/main.c * /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-

0.49/common/tftpsubs.c

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.c No license file was found, but licenses were detected in source scan.

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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-

0.49/tftpd/remap.h

0.49/tftpd/remap.c

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c No license file was found, but licenses were detected in source scan.

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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.1.in No license file was found, but licenses were detected in source scan.

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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/MCONFIG.in

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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.c

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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h

* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-

0.49/tftpd/recvfrom.c

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* /opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.h No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP). Name: tftp Version: 0.49 Release: 1 License: BSD Group: Applications/Internet Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-% {version }.tar.gz BuildPreReq: tcp_wrappers BuildRoot: % {_tmppath}/% {name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server Group: System Environment/Daemons Summary: The server for the Trivial File Transfer Protocol (TFTP). Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep %setup -q -n tftp-hpa-% {version}

%build

%configure make % { ?_smp_mflags }

```
%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
```

```
make INSTALLROOT=${RPM_BUILD_ROOT} \
```

SBINDIR=% {_sbindir} MANDIR=% {_mandir} \ install install -m755 -d \${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot install -m644 tftp-xinetd \${RPM_BUILD_ROOT}% {_sysconfdir}/xinetd.d/tftp

```
%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :
```

```
%postun server
if [ $1 = 0 ]; then
/sbin/service xinetd reload > /dev/null 2>&1 || :
fi
```

```
%clean
rm -rf ${RPM_BUILD_ROOT}
```

```
%files
%defattr(-,root,root)
```

% {_bindir}/tftp % {_mandir}/man1/*

%files server %defattr(-,root,root) %config(noreplace) % {_sysconfdir}/xinetd.d/tftp %dir /tftpboot % {_sbindir}/in.tftpd % {_mandir}/man8/*

%changelog

* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>

- removed completely broken "Malta" patch.

- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com> - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com> - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>

- 0.33

- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com> - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com> - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com> - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1 - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1

- Fix #55789

- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>

- Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>

- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>

- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>

- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com> - automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562

- Update to tftp-hpa-0.28 (bug #56131)

- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>

- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)

- updated tftp-hpa source to tftp-hpa-0.17

- tweaked specfile with different defines for tftp-netkit and tftp-hpa version

- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>

- rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>

- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>

- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)

- fixed hpa-tftpd to handle files greater than 32MB (#23725)

- added "-1" flag to hpa-tftpd for file-logging (#26467)
- added description for "-1" to the man-page
- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>

- xinetd shouldn't wait on tftp (which forks) (#23923).
- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>

- fix to permit tftp put's (#18128).

- startup as root with chroot to /tftpboot with early reversion to nobody

is preferable to starting as nobody w/o ability to chroot.

- %% post is needed by server, not client. Add %% postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>

- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com> - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>

- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>

- update to tftp-hpa-0.14 (#14003).

- add server_args (#14003).

- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>

- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>

- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>

- FHS packaging.

- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>

- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>

- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>

- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>

- man pages are compressed

- fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>

- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com> - compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com> - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com> - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com> - initial build

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.\"----- */

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- 0.49/common/tftpsubs.h

 $* / opt/ws_local/PERMITS_SQL/1066872890_1597797277.96/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/extern.h$

1.43 libmicrohttpd 0.9.59

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

@item

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

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

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

@item

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

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@item

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

@item

Use a suitable shared library mechanism for linking with the Library. A

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

@item

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

@item

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

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy. @end enumerate

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

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@item

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@subheading END OF TERMS AND CONDITIONS

@page

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*

* An almost complete rewrite of MySpell for use by

* the Mozilla project has been developed by David Einstein

* (Deinst@world.std.com). David and I are now

* working on parallel development tracks to help

* our respective projects (Mozilla and OpenOffice.org

* and we will maintain full affix file and dictionary

* file compatibility and work on merging our versions

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*

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1.46 libxslt 1.1.28

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1.47 keyutils 1.5.8 3.el7

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1.48 libxmu 1.1.1

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1.49 kmod 20-15.el7_4.7

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1.51 glib 2.50.3 3.el7

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1.58 memstat 0.8

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1.62 libx11 1.6.1

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1.67 libxfont 1.4.5

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1.68 xinetd 2.3.15

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1.69 libpciaccess 0.13.4 3.1.el7_4

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1.72 netperf 2.7.0 1.72.1 Available under license :

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1.73 ncurses 5.9 13.20130511.el7

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1.74 numactl 2.0.9

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1.77 efivar 31 4.el7

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1.81 bison 2.7.12

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1.82 python 2.7.5 48.el7

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

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

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| Release | Deriv | ed Yea | ır | Owner | GPL- |
|------------|----------|----------|-------|------------|---------|
| | | | compa | tible? (1) | |
| | | | | | |
| 0.9.0 thru | 1.2 | 1991- | 1995 | CWI | yes |
| 1.3 thru 1 | .5.2 1.2 | 1995 | -1999 | CNR | I yes |
| 1.6 | 1.5.2 | 2000 | CN | RI | no |
| 2.0 | 1.6 | 2000 | BeC | pen.co | m no |
| 1.6.1 | 1.6 | 2001 | CN | RI | yes (2) |
| 2.1 | 2.0+1.6 | .1 2001 | Р | SF | no |
| 2.0.1 | 2.0+1.6 | 5.1 2001 | F | PSF | yes |
| 2.1.1 | 2.1+2.0 | 0.1 2001 | F | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSI | г у | ves |
| 2.1.2 | 2.1.1 | 2002 | PS | F : | yes |
| 2.1.3 | 2.1.2 | 2002 | PS | F : | yes |
| 2.2.1 | 2.2 | 2002 | PSI | 7 у | ves |
| 2.2.2 | 2.2.1 | 2002 | PS | F : | yes |
| 2.2.3 | 2.2.2 | 2003 | PS | F : | yes |
| 2.3 | 2.2.2 | 2002-20 | 003 H | PSF | yes |
| 2.3.1 | 2.3 | 2002-20 | 003 H | PSF | yes |
| | | | | | |

| 2.3.2 | 2.3.1 | 2002-2003 PSF | | yes |
|-------|-------|---------------|---------|-----|
| 2.3.3 | 2.3.2 | 2002-2 | 003 PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7 | 2.6 | 2010 | PSF | yes |
| | | | | |

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| | | 1995 | | - | es |
|-------|---------|------------|-----------|-----------|-------------|
| 1.6 | 1.5.2 | 2000 | CNRI | no | |
| 2.0 | 1.6 | 2000 | BeOpen | .com no | + + |
| 1.6.1 | 1.6 | 2001 | CNRI | no | |
| 2.1 | 2.0+1.6 | .1 2001 | PSF | no | + |
| 2.0.1 | 2.0+1.6 | 5.1 2001 | PSF | yes | + + |
| 2.1.1 | 2.1+2.0 | 0.1 2001 | PSF | yes | |
| 2.2 | 2.1.1 | 2001 | PSF | yes | |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes | + + |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes | I |
| 2.2.1 | 2.2 | 2002 | PSF | yes | + + |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes | |
| 2.2.3 | 2.2.2 | 2002-20 | 003 PSF | yes | + |
| 2.3 | 2.2.2 | 2002-20 | 03 PSF | yes | + |
| 2.3.1 | 2.3 | 2002-20 | 03 PSF | yes | I |
| 2.3.2 | 2.3.1 | 2003 | PSF | yes | + |
| 2.3.3 | 2.3.2 | 2003 | PSF | yes | |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes | + |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes | + + |
| 2.4 | 2.3 | 2004 | PSF | yes | + |
| 2.4.1 | 2.4 | 2005 | PSF | yes | |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes | + + |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes | + + |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes | + + |
| + | + | + | + | +- | + |

| | 2.4 | | | | ++ |
|-------|-------|------|-----|-----|--------|
| 2.5.1 | 2.5 | 2007 | PSF | yes | |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes | |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes | |
| 2.6 | 2.5 | 2008 | PSF | yes | |
| 2.6.1 | 2.6 | 2008 | PSF | yes | |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes | |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes | |
| 2.6.4 | 2.6.3 | 2010 | PSF | yes | |
| 2.7 | 2.6 | 2010 | PSF | yes | |

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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.

http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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MD5 message digest algorithm

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L. Peter Deutsch ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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libffi

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zlib

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1.83 xorg-server 1.14.2

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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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