



Open Source Used In Unified Computing System (UCS) Diagnostics 6.1(3)

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Version 3, 29 June 2007

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1.7 dropbear 2013.58

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loginrec.h

atomicio.h

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1.10 ezxml 0.8.6

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1.11 libconfig 1.4.9 5.el7

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/* number.c: Implements arbitrary precision numbers. */

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******************************
#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.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 */
return (-1); /* Negative N1 < Positive N1 */
/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
 {
  if (n1->n_len > n2->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->n_scale == n2->n_scale)
 return (0);
if (count !=
0)
  if (*n1ptr > *n2ptr)
 /* 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);
}
 }
/* 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 \parallel 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 len + n1->n scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + 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->n\_sign == n2->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
 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
```

```
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 >= n1->n_value) && (n2ptr <= 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)^*u^1v^1 + B^n^*(u^1-u^0)^*(v^0-v^1) + (B^n+1)^*u^0v^0
 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
  \parallel 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 (vlen < 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) \parallel 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
 _bc_rec_mul
(u0, u0->n_len, v0, v0->n_len, &m3, 0);
/* 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->n_scale;
len2 = n2->n_len + n2->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\_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->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;
len1 = n1->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. */
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 <= 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.
*/
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 || 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 \gg 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 \gg 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_);
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)();
  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 (&base);
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_int2num (&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]);
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') \parallel (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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```

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1.18 keyutils 1.5.8 3.el7

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<one line to give the program's name and a brief idea of what it does.>
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Version 2.1, February 1999

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Although the Lesser General Public License is Less protective of the

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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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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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That's all there is to it!

1.19 pciutils 3.5.1-3.el7

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1.20 time 1.7

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1.21 efibootmgr 17 2.el7

1.22 dmidecode 3.5

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1.23 zlib 1.2.7

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1.24 libxml2 2.7.6-21.el6

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1.25 python 3.3.0

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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.

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1.3 thru 1	.5.2 1.2	1995-	-1999 CN	RI yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.o	com no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.	1 2001	PSF	no
2.0.1	2.0+1.6	.1 2001	PSF	yes
2.1.1	2.1+2.0	.1 2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.2 and above 2.1.1 2001-now				
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

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

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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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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

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zlib

The

:mod:`zlib` extension is built using an included copy of the zlib sources if the zlib version found on the system is too old to be used for the build::

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Jean-loup Gailly Mark Adler

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

cfuhash

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project::

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1.26 libsoup 2.36.1

1.27 atk 1.33.6

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1.28 bash 4.2.37

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1.31 sqlite 3.7.14.1

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Julian Seward, Cambridge, UK. jseward@bzip.org bzip2/libbzip2 version 1.0.4 of 20 December 2006 --- A note on GPL versions

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1.36 systemd 219-62.el7

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1.38 free-type 2.4.11

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```
--- end of FTL.TXT ---
```

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docs/FTL.TXT
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include/freetype/internal/fthash.h
src/base/fthash.c
src/base/md5.c
src/base/md5.h
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
```

src/gzip/infcodes.h

```
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
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@end smallexample

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@c Local Variables:

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

@c End:

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Version 3, 29 June 2007

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1.42 xz 5.2.2 1.el7

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1.43 libxcb 1.13 1.el7

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1.44 ncurses 5.9 13.20130511.el7

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1.45 kmod 20 9.el7

1.45.1 Available under license:

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1.48 glib 2.50.3 3.el7

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1.49 netbsd-resolv 2.17 196.el7 4.2

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1.50 curl 7.28.1

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1.56 util-linux 2.23.2-43.el7

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83 #2: 7680 8704 0xa5

#5: 7936 4864 0x7 (freebsd) #6: 12544 3584 0x7 (freebsd)

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```
---layout-----
_ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
  Device Boot Start
                         End Blocks Id System
-----
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img
---layout-----
_ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
  Device Boot Start
                         End Blocks Id System
__ts_dev__1 2048
                          4095
                                   1024 83 Linux
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023
bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img
---layout-----
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
  Device Boot Start
                         End Blocks Id System
__ts_dev__1
                 2048
                          4095 1024 83 Linux
                          20479 8192 a5 FreeBSD
__ts_dev__2
                 4096
```

Create default BSD

```
---layout-----
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help):
BSD disklabel command (m for help):
4 partitions:
    start
          end size fstype [fsize bsize cpg]
    4096 20479 16384 unused
                                     0 0
      0
 16064 16065 unused
                           0 0
BSD disklabel command (m for help):
Command (m for help):
_____
b5c121c2091b2ff26b880551feac7112 bsd.img
---layout-----
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help):
BSD disklabel command (m for help):
4 partitions:
    start
           end size fstype [fsize bsize cpg]
    4096
           6144 2049 4.2BSD
                                     0 0 0
    4096 20479 16384 unused
                                     0 0
d:
      0 16064 16065 unused 0 0
BSD disklabel command (m for help):
Command (m for help):
```

2e1cee529cb59c9341afef0443f196a1 bsd.img

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0 unused 5 4.1BSD 9 4.4LFS d boot

1 swap

6 Eighth Edition a unknown e ADOS

- 2 Version 6 7 4.2BSD b HPFS f HFS
- 3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
- 4 System V

BSD disklabel command (m for help):

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1.57 libasyncns 0.8 7.el7

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1.60 xterm 296

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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
- * of MySpell back into a single tree. David has been
- * a significant help in improving MySpell.

*

- * Special thanks also go to La'szlo' Ne'meth
- * <nemethl@gyorsposta.hu> who is the author of the
- * Hungarian dictionary and who developed and contributed
- * the code to support compound words in MySpell
- * and fixed numerous problems with the encoding
- * case conversion tables.

*

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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)

```
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
```

1.65 xorg-server 1.14.2

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1.66 webkit 1.2.7

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That's all there is to it!

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been

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# SOFTWARE.
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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```

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1.72 libxi 1.6.1

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1.73 libx11 3.22.10-5.el7_4

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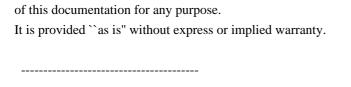
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1.76 openssl 1.0.2k-16.el7

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1.78 sg3-utils 1.37-12.el7

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ConferenceTV card

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TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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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
```

Antonio Luna Hari Nagalla

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

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1.81 ipmi-tool 1.8.11

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1.82 kerberos 1.16

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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lib/gssapi/mechglue/g_initialize.c

lib/gssapi/mechglue/g_inquire_context.c lib/gssapi/mechglue/g_inquire_cred.c lib/gssapi/mechglue/g_inquire_names.c

lib/gssapi/mechglue/g_process_context.c

lib/gssapi/mechglue/g_rel_buffer.c

lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c

lib/gssapi/mechglue/g_rel_oid_set.c

lib/gssapi/mechglue/g seal.c

lib/gssapi/mechglue/g_sign.c

lib/gssapi/mechglue/g_store_cred.c

lib/gssapi/mechglue/g_unseal.c

lib/gssapi/mechglue/g_userok.c

lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c

lib/gssapi/mechglue/gssd_pname_to_uid.c

lib/gssapi/mechglue/mglueP.h

lib/gssapi/mechglue/oid_ops.c

lib/gssapi/spnego/gssapiP_spnego.h

lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including

the following new or changed files:

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

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