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

1.2 libpcap 1.7.4

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X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
 by localhost (Postfix) with ESMTP id B8C814E4F
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
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Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:

X-UID: 44736

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it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
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let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

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> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
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> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
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1.4 libpcap 1.8.1

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/* number.c: Implements arbitrary precision numbers. */
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              Bellingham, WA 98226-9062

*****************************************************************************/

#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 */
    else
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 || n1->n_sign == PLUS)
    return (1);
  else
    return (-1);
}
    else
{
  /* Magnitude of n1 < n2. */
  if (!use_sign || 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 || n1->n_sign == PLUS)
   return (1);
 else
   return (-1);
}
   else
{
 /* Magnitude of n1 < n2. */
 if (!use_sign || 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_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
 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 >= 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)*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 (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) || 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
   _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. */
    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 (len2 > len1)
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.
*/

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 || 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_);
  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 (&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]);
      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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1.6 mtd-utils 1.5.2

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instead of to this License. (If a newer version than version 2 of the
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these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

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

@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.

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

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

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

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

@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.

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

@enumerate a
@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.

@item
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.

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

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library,
 uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
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smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into
another language. (Hereinafter, translation is
included without limitation in the term "modification".)

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

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

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You may charge a fee for the physical act of transferring a copy,

and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

to use the modified definitions.)

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

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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1.16 dc 1.3

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
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<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left" horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines" minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/BarButtonItemViewController.h
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```
Pod::Spec.new do |s|

 s.name         = "DCPathButton"
 s.version      = "2.1.1"
 s.summary      = " A beautiful button copy from Path® "

 s.description  = <<-DESC
   DCPathButton is a menu button, design by an famous App Path®.
   Since Path® 4.0, it return to use a tab bar instead of a side bar,
   and also change the menu button. So I try to implement it and then
   the DCPathButton born :)
              DESC

 s.homepage     = "https://github.com/Tangdixi/DCPathButton"

 s.license      = {
 :type => 'MIT',
 :text => 'The DCPathButton use the MIT license'
 }

 s.author             = { "Tangdixi" => "Tangdixi@gmail.com" }

 s.platform     = :ios, '7.0'

 s.source       = {
 :git => "https://github.com/Tangdixi/DCPathButton.git",
 :tag => "2.1.1"
 }

 s.source_files  = 'DCPathButton/Classes/*.{h,m}'

 s.resources  = ["DCPathButton/Sounds/*"]

 s.frameworks = 'QuartzCore','AudioToolbox'
```

s.requires_arc = true

end

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DCPathButton

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/ExampleTests/ExampleTests.m
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.m
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.h
*
/opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/main.m
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathButton.m
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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h
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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.h
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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/README.md
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1.17 gmp 6.1.2

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Version 3, 29 June 2007

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1.19 libarchive 3.3.2

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1.20 ncurses 6.1

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1.21 ipmi-tool 1.8.18

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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<!-- $Id$ -->

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

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

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

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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     file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
```

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

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.27 lsof 4.89

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1.29 dosfs-tools 3.0.26

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1.30 gpt-fdisk 0.8.8

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{
"testfiles": [
"test/*.uts",
"test/scapy/layers/*.uts",
"test/contrib/automotive/*.uts",
"test/contrib/automotive/obd/*.uts",

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  "test/contrib/*.uts"
 ],
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  "test/linux.uts",
  "test/windows.uts",
  "test/contrib/automotive/ecu_am.uts",
  "test/contrib/automotive/gm/gmlanutils.uts",
  "test/contrib/isotp.uts",
  "test/contrib/isotpscan.uts"
 ],
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 "preexec": {
  "test/contrib/*.uts": "load_contrib(\"%name%\")",
  "test/cert.uts": "load_layer(\"tls\")",
  "test/sslv2.uts": "load_layer(\"tls\")",
  "test/tls*.uts": "load_layer(\"tls\")"
 },
 "kw_ko": [
  "linux",
  "windows",
  "crypto_advanced",
  "ipv6",
  "vcan_socket"
 ]
}
```

1.41 lrzsz 0.12.20

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=====

curve25519-donna:

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*
* curve25519-donna: Curve25519 elliptic curve, public key function
*
* http://code.google.com/p/curve25519-donna/
*
* Adam Langley <agl@imperialviolet.org>
*
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
*
* More information about curve25519 can be found here
*   http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/
```

1.45 golang-mock 1.5.0

1.45.1 Available under license :

```
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//

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import (
 gomock "github.com/golang/mock/gomock"
```

```
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
 ctrl     *gomock.Controller
 recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
 mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
 mock := &MockEmpty{ctrl: ctrl}
 mock.recorder = &MockEmptyMockRecorder{mock}
 return mock
}

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty)
 EXPECT() *MockEmptyMockRecorder {
 return m.recorder
}
# This is the official list of people who can contribute (and typically
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#
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first address should be used in the submit logs and
that the second address should be recognized as the
same person when interacting with Rietveld.

Please keep the list sorted.

Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
//go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

package empty_interface

type Empty interface{}

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1.46 tdb 1.42.13

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1.48 protobuf 1.27.1

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1.49 tdb 1.44.2

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1.53 mtd-utils 2.0.2

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1.54 leveldb 0.201

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those

libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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@enumerate 0
@item
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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,
either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

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

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

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You may copy and distribute
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complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

fee.

@item
You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

@item
You must
 cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

it.

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

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

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

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

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

@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.

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

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

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

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

@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.

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

@enumerate a
@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.

@item
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.

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

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

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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safest to attach them to the start of each source
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@end

smallexample

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively

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interactive use in the most ordinary way, to print or display an
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
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entire whole, and thus to each and every part regardless of who wrote it.

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

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

3. You may copy and distribute the Program (or a work based on it,
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Sections 1 and 2 above provided that you also do one of the following:

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1 and 2 above on a medium customarily used for software interchange; or,

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years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is

allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

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

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

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

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

```
    </xsl:call-template>
  </xsl:if>
</xsl:template>

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

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

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.60 x-text 0.3.8

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1.61 edk2 edk2-stable202202

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Key Dates

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* August 3, 2017

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

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

References:

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
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* April 9, 2019

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==========

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1. Create a change description in the format specified below to
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2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
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For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
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===
= Change Description / Commit Message / Patch Email =
===

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

== Sample Change Description / Commit Message =

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

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

Full-commit-message

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

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

Patch content inline or attached

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

=== Notes for sample patch email ===

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

=== Definitions
for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or

'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
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Contributions.txt: TianoCore Contribution Agreement 1.0

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

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under"
message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
not documented, then submit the code on development email list
for the project.
5. It is preferred that contributions are submitted using the same
copyright license as the base project. When that is not possible,
then contributions using the following licenses can be accepted:
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accepted.

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

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

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

== Sample Change Description / Commit Message =

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

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

Full-commit-message

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

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

Patch content inline or attached

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

=== Notes for sample patch email ===

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

=== Definitions for sample patch email ===

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

==
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==

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1.62 gogo-protobuf 1.3.2

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1.63 libfastjson 0.99.8

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1.64 grub2 2.02

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Section 6,
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1.68 curl 7.87.0

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1.69 openssl 3.1.2

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<signature of Ty Coon>, 1 April 1989
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1.70 lvm2 1.02.84

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```
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```

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

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

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

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

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

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
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the GNU Public License version 2, with the exception of the lib/ext2fs
```

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    Theodore Ts'o
    23-June-2007

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Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

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users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files,
but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

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

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

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

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

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

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

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

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

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

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

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
```

```
 echo "Please provide a FILE as an argument."
 exit 1
fi

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

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
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MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
This script will read the license file into memory, strip out the copyright, and then
generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
local FILE="$1"

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

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

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

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

Replace multiple spaces with a single space

```
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

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

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

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

 # Output the MD5 sum
 echo "$MD5SUM"
}

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

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

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B  "1
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(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
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product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

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

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)

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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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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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1.82 openssh 9.6p1

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1.89 u-boot 2021.04

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a
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used for software interchange.

@item
Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a written
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for software interchange, for a price no more than your reasonable
cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written
offer
to provide the Corresponding Source. This alternative is
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received the object code with such an offer, in accord with subsection
6b.

@item
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@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

To
do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

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

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notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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@c man end
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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2. No Weakening of GCC Copyleft.

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely

due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
 the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
 experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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@appendixsubsec Preamble

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that might be
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We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

The precise terms and conditions for copying, distribution and
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``work based on the library'' and a ``work that uses the library''. The
former contains code derived from the
library, whereas the latter must
be combined with the library in order to run.

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Library'' means
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interface definition files, plus the scripts used to control compilation
and installation of the library.

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

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

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In addition, mere aggregation of another work not based on the Library
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

@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.

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

@enumerate a
@item
Accompany the work with the complete corresponding
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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
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@item
Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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specified materials from the same place.

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

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reproducing
the executable from it. However, as a special exception,
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It may happen that this requirement contradicts the license
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the Library and of the other library facilities is otherwise
permitted, and provided that
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@enumerate a
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based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
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where to find the accompanying uncombined form of the same work.
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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possible use to the public, we recommend making it free software that
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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That's all there is to it!

1.101 cpp 6.5

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HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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* m4/ax_func_which_gethostbyname_r.m4

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1) Use a suitable shared library mechanism for linking with the
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a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible

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Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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LLVM Team

University of Illinois at Urbana-Champaign

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The ordinary
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entire combination fits its criteria of freedom. The Lesser General
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For example, on rare occasions, there may be a special need to
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allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free
libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

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

Although the Lesser General Public License is Less protective of the
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linked with the Library has the freedom and the wherewithal to run
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former contains code derived from the
library, whereas the latter must
be combined with the library in order to run.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still
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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
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you must include the
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with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
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@item
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 a copy of the
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1.102 stack 1.7.0

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1.103 afero 1.0.6-0.20201009195203-85dd5c8bc61c

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1.104 e2fsprogs 1.44.2

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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

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```
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

$(RM) -f ../$(BSD_LIB)

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This is the Debian GNU/Linux prepackaged version of the translation
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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.107 autogen 0.2.36

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Tests

Tests are automatically run via GitHub actions. There are two workflows:

1. [build.yml](https://github.com/microsoft/autogen/blob/main/.github/workflows/build.yml)
1. [openai.yml](https://github.com/microsoft/autogen/blob/main/.github/workflows/openai.yml)

The first workflow is required to pass for all PRs (and it doesn't do any OpenAI calls). The second workflow is required for changes that affect the OpenAI tests (and does actually call LLM). The second workflow requires approval to run. When writing tests that require OpenAI calls, please use [`pytest.mark.skipif`](https://github.com/microsoft/autogen/blob/b1adac515931bf236ac59224269eeec683a162ba/test/oai/test_client.py#L19) to make them run in only when `openai` package is installed. If additional dependency for this test is required, install the dependency in the corresponding python version in [openai.yml](https://github.com/microsoft/autogen/blob/main/.github/workflows/openai.yml).

Make sure all tests pass, this is required
 for [build.yml](https://github.com/microsoft/autogen/blob/main/.github/workflows/build.yml) checks to pass

Running tests locally

To run tests, install the [test] option:

```bash
pip install -e."[test]"
```

Then you can run the tests from the `test` folder using the following command:

```bash
pytest test
```

Tests for the `autogen.agentchat.contrib` module may be skipped automatically if the
required dependencies are not installed. Please consult the documentation for
each contrib module to see what dependencies are required.

See [here](https://github.com/microsoft/autogen/blob/main/notebook/contributing.md#testing) for how to run notebook tests.

Skip flags for tests

- `--skip-openai` for skipping tests that require access to OpenAI services.

- `--skip-docker` for skipping tests that explicitly use docker
- `--skip-redis` for skipping tests that require a Redis server

For example, the following command will skip tests that require access to
OpenAI and docker services:

```bash
pytest
 test --skip-openai --skip-docker
```

Coverage

Any code you commit should not decrease coverage. To ensure your code maintains or increases coverage, use the following commands after installing the required test dependencies:

```bash
pip install -e ."[test]"

pytest test --cov-report=html
```

Pytest generated a code coverage report and created a htmlcov directory containing an index.html file and other related files. Open index.html in any web browser to visualize and navigate through the coverage data interactively. This interactive visualization allows you to identify uncovered lines and review coverage statistics for individual files.
Pre-commit

Run `pre-commit install` to install pre-commit into your git hooks. Before you commit, run
`pre-commit run` to check if you meet the pre-commit requirements. If you use Windows (without WSL) and can't commit after installing pre-commit, you can run `pre-commit uninstall` to uninstall the hook. In WSL or Linux this is supposed to work.
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SOFTWARE.
Docker for Development

For developers contributing to the AutoGen project, we offer a specialized Docker environment. This setup is designed to streamline the development process, ensuring that all contributors work within a consistent and well-equipped environment.

Autogen Developer Image (autogen_dev_img)

- **Purpose**: The `autogen_dev_img` is tailored for contributors to the AutoGen project. It includes a suite of tools and configurations that aid in the development and testing of new features or fixes.
- **Usage**: This image is recommended for developers who intend to contribute code or documentation to AutoGen.
- **Forking the Project**: It's advisable to fork the AutoGen GitHub project to your own repository. This allows you to make changes in a separate environment without affecting the main project.
- **Updating Dockerfile**: Modify your copy of `Dockerfile` in the `dev` folder as needed for your development work.
- **Submitting Pull Requests**: Once your changes are ready,
submit a pull request from your branch to the upstream AutoGen GitHub project for review and integration. For more details on contributing, see the [AutoGen Contributing](https://microsoft.github.io/autogen/docs/Contribute) page.

Building the Developer Docker Image

- To build the developer Docker image (`autogen_dev_img`), use the following commands:

```bash
docker build -f .devcontainer/dev/Dockerfile -t autogen_dev_img https://github.com/microsoft/autogen.git#main
```

- For building the developer image built from a specific Dockerfile in a branch other than main/master

```bash
# clone the branch you want to work out of
git clone --branch {branch-name} https://github.com/microsoft/autogen.git

# cd to your new directory
cd autogen

# build your Docker image
docker build -f .devcontainer/dev/Dockerfile -t autogen_dev-srv_img .
```

Using the Developer Docker Image

Once you have built the `autogen_dev_img`, you can run it using the standard Docker
commands. This will place you inside the containerized development environment where you can run tests, develop code, and ensure everything is functioning as expected before submitting your contributions.

```bash
docker run -it -p 8081:3000 -v `pwd`/autogen-newcode:newstuff/ autogen_dev_img bash
```

- Note that the `pwd` is shorthand for present working directory. Thus, any path after the pwd is relative to that. If you want a more verbose method you could remove the "`pwd`/autogen-newcode" and replace it with the full path to your directory

```bash
docker run -it -p 8081:3000 -v /home/AutoGenDeveloper/autogen-newcode:newstuff/ autogen_dev_img bash
```

Develop in Remote Container

If you use vscode, you can open the autogen folder in a
[Container](https://code.visualstudio.com/docs/remote/containers).
We have provided the configuration in
[devcontainer](https://github.com/microsoft/autogen/blob/main/.devcontainer). They can be used in GitHub codespace too. Developing AutoGen in
dev containers is recommended.
Guidance for Maintainers

General

- Be a member of the community and treat everyone as a member. Be inclusive.
- Help each other and encourage mutual help.
- Actively post and respond.
- Keep open communication.
- Identify good maintainer candidates from active contributors.

Pull Requests

- For new PR, decide whether to close without review. If not, find the right reviewers. One source to refer to is the roles on Discord. Another consideration is to ask users who can benefit from the PR to review it.

- For old PR, check the blocker: reviewer or PR creator. Try to unblock. Get additional help when needed.
- When requesting changes, make sure you can check back in time because it blocks merging.
- Make sure all the checks are passed.
- For changes that require running OpenAI tests, make sure the OpenAI tests pass too. Running these tests requires approval.
- In general, suggest small PRs instead of a giant PR.
- For documentation change, request snapshot of the compiled website,

or compile by yourself to verify the format.
- For new contributors who have not signed the contributing agreement, remind them to sign before reviewing.
- For multiple PRs which may have conflict, coordinate them to figure out the right order.
- Pay special attention to:
 - Breaking changes. Dont make breaking changes unless necessary. Dont merge to main until enough headsup is provided and a new release is ready.
 - Test coverage decrease.
 - Changes that may cause performance degradation. Do regression test when test suites are available.
 - Discourage **change to the core library** when there is an alternative.

Issues and Discussions

- For new issues, write a reply, apply a label if relevant. Ask on discord when necessary. For roadmap issues, apply the roadmap label and encourage community discussion. Mention relevant experts when necessary.

- For old issues, provide an update or close. Ask on discord when necessary. Encourage PR creation when relevant.
- Use good first
 issue for easy fix suitable for first-time contributors.
- Use task list for issues that require multiple PRs.
- For discussions, create an issue when relevant. Discuss on discord when appropriate.
Contributors

Special thanks to all the people who help this project:
> These individuals dedicate their time and expertise to improve this project. We are deeply grateful for their contributions.

Name	GitHub Handle	Organization	Features	Roadmap Lead	Additional Information
Qingyun Wu	[qingyun-wu](https://github.com/qingyun-wu)	Penn State University	all, alt-models, autobuilder	Yes	Available most of the time (US Eastern Time)
Chi Wang	[sonichi](https://github.com/sonichi)	-	all	Yes	
Li Jiang	[thinkall](https://github.com/thinkall)	Microsoft	rag, autobuilder, group chat	Yes	[Issue #1657](https://github.com/microsoft/autogen/issues/1657) - Beijing, GMT+8
Mark Sze	[marklysze](https://github.com/marklysze)	-	alt-models, group chat	No	Generally available (Sydney, AU time) - Group Chat "auto" speaker selection
Hrushikesh Dokala	[Hk669](https://github.com/Hk669)	-	alt-models, swebench,
logging, rag	No	[Issue #2946](https://github.com/microsoft/autogen/issues/2946), [Pull Request #2933](https://github.com/microsoft/autogen/pull/2933) - Available most of the time (India, GMT+5:30)
Jiale Liu	[LeoLjl](https://github.com/LeoLjl)	Penn State University	autobuild, group chat	No	
Shaokun Zhang	[skzhang1](https://github.com/skzhang1)	Penn State University	AgentOptimizer, Teachability	Yes	[Issue #521](https://github.com/microsoft/autogen/issues/521)
Rajan Chari	[rajan-chari](https://github.com/rajan-chari)	Microsoft Research	CAP, Survey of other frameworks	No	
Victor Dibia	[victordibia](https://github.com/victordibia)	Microsoft Research	autogenstudio	Yes	[Issue #737](https://github.com/microsoft/autogen/issues/737)
Yixuan Zhai	[randombet](https://github.com/randombet)	Meta	group chat, sequential_chats, rag	No	
Xiaoyun Zhang	[LittleLittleCloud](https://github.com/LittleLittleCloud)

Microsoft	AutoGen.Net, group chat	Yes	[Backlog - AutoGen.Net](https://github.com/microsoft/autogen/issues) - Available most of the time (PST)
Yiran Wu	[yiranwu0](https://github.com/yiranwu0)	Penn State University	alt-models, group chat, logging	Yes	
Beibin Li	[BeibinLi](https://github.com/BeibinLi)	Microsoft Research	alt-models	Yes	
Gagan Bansal	[gagb](https://github.com/gagb)	Microsoft Research	All		
Adam Fourney	[afourney](https://github.com/afourney)	Microsoft Research	Complex Tasks		
Ricky Loynd	[rickyloynd-microsoft](https://github.com/rickyloynd-microsoft)	Microsoft Research	Teachability		
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Jack Gerrits	[jackgerrits](https://github.com/jackgerrits)	Microsoft Research	All, Infra		
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Jingya Chen	[jingyachen](https://github.com/JingyaChen)	Microsoft	UX Design, AutoGen Studio		
Suff Syed	[suffsyed](https://github.com/suffsyed)	Microsoft	UX Design, AutoGen Studio		

I would like to join this list. How can I help the project?
> We're always looking for new contributors to join our team and help improve the project. For more information, please refer to our [CONTRIBUTING](https://microsoft.github.io/autogen/docs/contributor-guide/contributing) guide.

Are you missing from this list?
>
Please open a PR to help us fix this.

Acknowledgements
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Documentation

How to get a notebook rendered on the website

See [here](https://github.com/microsoft/autogen/blob/main/notebook/contributing.md#how-to-get-a-notebook-displayed-on-the-website) for instructions on how to get a notebook in the `notebook` directory rendered on the website.

Build documentation locally

1\. To build and test documentation locally, first install [Node.js](https://nodejs.org/en/download/). For example,

```bash
nvm install --lts
```

Then, install `yarn` and other required packages:

```bash
npm install --global yarn
pip install pydoc-markdown pyyaml termcolor
```

2\. You also need to install quarto. Please click on the `Pre-release` tab from [this website](https://quarto.org/docs/download/) to download the latest version of `quarto` and install it. Ensure that the `quarto` version is `1.5.23` or higher.

3\. Finally, run the following commands to build:

```console
cd website
yarn install --frozen-lockfile --ignore-engines
```

pydoc-markdown
python process_notebooks.py
 render
yarn start
```

The last command starts a local development server and opens up a browser window.
Most changes are reflected live without having to restart the server.

## Build with Docker

To build and test documentation within a docker container. Use the Dockerfile in the `dev` folder as described above to build your image:

```bash
docker build -f .devcontainer/dev/Dockerfile -t autogen_dev_img https://github.com/microsoft/autogen.git#main
```

Then start the container like so, this will log you in and ensure that Docker port 3000 is mapped to port 8081 on your local machine

```bash
docker run -it -p 8081:3000 -v `pwd`/autogen-newcode:newstuff/ autogen_dev_img bash
```

Once at the CLI in Docker run the following commands:

```bash
cd website
yarn install --frozen-lockfile --ignore-engines
pydoc-markdown
python process_notebooks.py render
yarn start --host 0.0.0.0 --port 3000
```

Once done you should be able to access the documentation at `http://127.0.0.1:8081/autogen`
File A Bug Report

When you submit an issue to [GitHub](https://github.com/microsoft/autogen/issues), please do your best to follow these guidelines! This will make it a lot easier to provide you with good
feedback:

- The ideal bug report contains a short reproducible code snippet. This way
 anyone can try to reproduce the bug easily (see [this](https://stackoverflow.com/help/mcve) for more details). If your snippet is
 longer than around 50 lines, please link to a [gist](https://gist.github.com) or a GitHub repo.

- If an exception is raised, please **provide the full traceback**.
```

- Please include your **operating system type and version number**, as well as
 your **Python, autogen, scikit-learn versions**. The version of autogen
 can be found by running the following code snippet:

```python
import autogen
print(autogen.__version__)
```

- Please ensure all **code snippets and error messages are formatted in
 appropriate code blocks**. See [Creating and highlighting code blocks](https://help.github.com/articles/creating-and-highlighting-code-blocks)
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- Readability improvement, e.g., improvement on docstr and comments.
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1.108 libffi 2.4.5

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1.109 liblockfile 3.4.7

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope

Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes

Footnotes:

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

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1.116 mmc-utils 4.3.0

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* Last update: 06/15/2005
* Issue date: 06/15/2005
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*
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MMC tools (mmc-utils)
=====================

mmc-utils is a tool for configuring MMC storage devices from userspace.

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-----------------------

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One can document themselves by reading how to submit a patch in the official
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Not all sections apply but it should be a good way to get started.

A patch should be sent as a mail (not as an attachement, see documentation
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Cc recipients.

Documentation
---
https://mmc-utils.readthedocs.io/en/latest/

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*
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* Last update: 02/02/2007
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1.117 pensando-sw 21.07.0-011

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Version 2.1, February 1999

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permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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(Hereinafter, translation is
included without limitation in the term "modification".)

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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with the complete corresponding
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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
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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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rather than copying library functions into the executable, and (2)
will operate properly with
a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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than the cost of performing this distribution.

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

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

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Version 1.1

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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