



Open Source Used In Unified Computing System (UCS) Server Configuration Utility 6.1(2)

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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

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1.9 bc 1.06

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```
signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice
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/* number.c: Implements arbitrary precision numbers. */
/*
```

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```
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***********************************
#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */
#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory
_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));
/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;
```

```
static bc_num _bc_Free_list = NULL;
/* new_num allocates a number and sets fields to known values. */
bc num
bc_new_num (length, scale)
  int length, scale;
bc_num temp;
if (_bc_Free_list != NULL) {
 temp = _bc_Free_list;
 _bc_Free_list = temp->n_next;
 } else {
 temp = (bc_num) malloc (sizeof(bc_struct));
 if (temp == NULL) bc_out_of_memory ();
temp->n \text{ 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);
_{\text{two}}->n_{\text{value}}[0]=2;
}
/* Make a copy of a number! Just
increments the reference count! */
bc_num
bc_copy_num (num)
  bc num num;
num->n_refs++;
return num;
}
/* Initialize a number NUM by making it a copy of zero. */
void
bc_init_num (num)
  bc_num *num;
*num = bc_copy_num (_zero_);
}
/* For many things, we may have leading zeros in a number NUM.
 _bc_rm_leading_zeros just moves the data "value" pointer to the
 correct place and adjusts the length. */
static void
_bc_rm_leading_zeros (num)
  bc_num num;
/* We can move n_value to point to the first non zero digit! */
while (*num->n_value == 0 \&\& num->n_len > 1) {
 num->n_value++;
 num->n_len--;
}
```

```
/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
 than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
 compare the magnitudes. */
static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
  bc_num n1, n2;
  int use_sign;
  int ignore_last;
char *n1ptr, *n2ptr;
int count;
/* First, compare
signs. */
if (use_sign && n1->n_sign != n2->n_sign)
   if (n1->n\_sign == PLUS)
return (1); /* Positive N1 > Negative N2 */
return (-1); /* Negative N1 < Positive N1 */
  }
/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
   if (n1->n_len > n2->n_len)
  /* Magnitude of n1 > n2. */
  if (!use_sign \parallel n1->n_sign == PLUS)
   return (1);
  else
   return (-1);
   else
  /* Magnitude of n1 < n2. */
  if (!use_sign \parallel n1->n_sign == PLUS)
   return (-1);
  else
   return (1);
}
  }
/* If we get here, they have the same number of integer digits.
  check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
```

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

```
for (count = n2->n_scale-n1->n_scale; count>0; count--)
  if (*n2ptr++ != 0)
    {
 /* Magnitude of n1 < n2. */
 if (!use_sign \parallel n1->n_sign == PLUS)
  return (-1);
 else
  return (1);
    }
}
  }
/* They must be equal! */
return (0);
}
/* This is the "user callable" routine to compare numbers
N1 and N2. */
int
bc_compare (n1, n2)
  bc_num n1, n2;
return _bc_do_compare (n1, n2, TRUE, FALSE);
/* In some places we need to check if the number is negative. */
char
bc_is_neg (num)
  bc_num num;
return num->n_sign == MINUS;
/* In some places we need to check if the number NUM is zero. */
char
bc_is_zero (num)
  bc_num num;
{
int count;
char *nptr;
/* Quick check. */
if (num == _zero_) return TRUE;
```

```
/* Initialize */
count = num->n_len + num->n_scale;
nptr = num->n_value;
/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;
if (count !=0)
  return FALSE:
else
  return TRUE;
}
/* In some places we need to check if the number NUM is almost zero.
 Specifically, all but the last digit is 0 and the last digit is 1.
 Last digit is defined by scale. */
char
bc_is_near_zero (num, scale)
  bc num num;
  int scale;
int count;
char *nptr;
/* Error checking */
if (scale > num->n_scale)
  scale = num->n_scale;
 /* Initialize */
count = num->n_len + scale;
nptr = num->n_value;
/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;
if (count != 0 && (count != 1 || *--nptr != 1))
  return FALSE;
else
  return TRUE;
}
/* Perform addition: N1 is added to N2 and the value is
 returned. The signs of N1 and N2 are ignored.
 SCALE_MIN is to set the minimum scale of the result. */
```

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

```
{
   *sumptr = *n1ptr-- + *n2ptr-- + carry;
  if (*sumptr > (BASE-1))
  carry = 1;
  *sumptr -= BASE;
   else
carry = 0;
  sumptr--;
  n1bytes--;
  n2bytes--;
  }
/* Now add carry the
longer integer part. */
if (n1bytes == 0)
 { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-->0)
   *sumptr = *n1ptr-- + carry;
  if (*sumptr > (BASE-1))
  carry = 1;
  *sumptr -= BASE;
   else
carry = 0;
   sumptr--;
/* Set final carry. */
if (carry == 1)
 *sumptr += 1;
/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
/* Perform subtraction: N2 is subtracted from N1 and the value is
 returned. The signs of N1 and N2 are ignored. Also, N1 is
 assumed to be larger than N2. SCALE_MIN is the minimum scale
 of the result. */
static bc_num
_bc_do_sub (n1, n2, scale_min)
```

```
bc_num n1, n2;
  int scale_min;
{
bc_num diff;
int diff_scale, diff_len;
int min_scale, min_len;
char *n1ptr, *n2ptr, *diffptr;
int borrow, count, val;
/* Allocate temporary storage. */
diff_{len} = MAX (n1->n_{len}, n2->n_{len});
diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN (n1->n_len, n2->n_len);
min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));
/* Zero extra digits made by scale_min. */
if (scale min > diff scale)
 {
  diffptr = (char *) (diff->n_value + diff_len + diff_scale);
  for (count = scale_min - diff_scale; count > 0; count--)
*diffptr++=0;
 }
/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);
/* Subtract the numbers. */
borrow = 0;
/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
 {
  /* n1 has the longer scale */
  for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
 }
else
  /* n2 has the longer scale */
  for (count = n2->n_scale - min_scale; count > 0; count--)
 val = -*n2ptr---borrow;
 if (val < 0)
```

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

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

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

}

```
bc_free_num (result);
*result = sum;
/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#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^u(u1-u0)^u(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
  \parallel ulen < MUL\_SMALL\_DIGITS
  || vlen < MUL_SMALL_DIGITS ) {
 _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
 return;
}
/* Calculate n -- the u and v split point in digits. */
n = (MAX(ulen, vlen)+1) / 2;
/* Split u and v. */
if (ulen < n) {
 u1 = bc_copy_num (_zero_);
 u0 = new_sub_num (ulen,0, u->n_value);
} else {
 u1 = new_sub_num (ulen-n, 0, u->n_value);
 u0 =
new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
 v1 = bc_copy_num (_zero_);
 v0 = new_sub_num (vlen,0, v->n_value);
} else {
 v1 = new\_sub\_num (vlen-n, 0, v->n\_value);
 v0 = new\_sub\_num (n, 0, v->n\_value+vlen-n);
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;
m1zero = bc_is_zero(u1) \parallel bc_is_zero(v1);
/* Calculate sub results ... */
bc_init_num(&d1);
bc_init_num(&d2);
```

```
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;
/* Do recursive multiplies and shifted adds. */
if (m1zero)
  m1 = bc_copy_num (_zero_);
else
  _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);
if (bc_is_zero(d1) || bc_is_zero(d2))
  m2 = bc_copy_num (_zero_);
else
  _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);
if \ (bc\_is\_zero(u0) \parallel 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;
}
  }
}
^{\prime *} 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 (len 2 > len 1 + scale)
  qdigits = scale+1;
  zero = TRUE;
else
 {
  zero = FALSE;
  if (len2>len1)
qdigits = scale+1; /* One for the zero integer part. */
qdigits = len1-len2+scale+1;
 }
/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);
/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();
/* Now for the full divide algorithm. */
if (!zero)
  /* Normalize
  norm = 10 / ((int)*n2ptr + 1);
  if (norm != 1)
{
 _one_mult (num1, len1+scale1+extra+1, norm, num1);
 _one_mult (n2ptr, len2, norm, n2ptr);
}
  /* Initialize divide loop. */
  qdig = 0;
  if (len 2 > len 1)
qptr = (unsigned char *) qval->n_value+len2-len1;
  else
qptr = (unsigned char *) qval->n_value;
  /* Loop */
  while (qdig <= len1+scale-len2)
 /* Calculate the quotient digit guess. */
 if (*n2ptr == num1[qdig])
  qguess = 9;
```

```
else
 qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;
/* Test qguess. */
if (n2ptr[1]*qguess >
  (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
   + num1[qdig+2])
  qguess--;
  /* And again. */
  if (n2ptr[1]*qguess >
 (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
 + num1[qdig+2])
qguess--;
 }
/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
 {
   *mval = 0;
  _one_mult (n2ptr, len2, qguess, mval+1);
  ptr1 = (unsigned char *) num1+qdig+len2;
  ptr2 = (unsigned char *) mval+len2;
  for (count = 0; count < len2+1; count++)
 val = (int) *ptr1 - (int) *ptr2-- - borrow;
 if (val < 0)
   val += 10;
   borrow = 1;
  }
 else
  borrow = 0;
 *ptr1-- = val;
 }
/* Test for negative result. */
if (borrow == 1)
 {
  qguess--;
  ptr1 = (unsigned char *) num1+qdig+len2;
  ptr2 = (unsigned char *) n2ptr+len2-1;
  carry = 0;
  for (count = 0; count < len2; count++)
{
```

```
val = (int) *ptr1 + (int) *ptr2-- + carry;
  if (val > 9)
   {
    val = 10;
    carry = 1;
  else
   carry = 0;
  *ptr1-- = val;
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
 /* We now know the quotient digit. */
 *qptr++ = qguess;
 qdig++;
}
/* Clean up and return the number. */
qval->n\_sign = (n1->n\_sign == n2->n\_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign
= PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;
/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);
return 0; /* Everything is OK. */
/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
 NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
 is NULL then that store will be omitted.
*/
int
bc_divmod (num1, num2, quot, rem, scale)
  bc_num num1, num2, *quot, *rem;
  int scale;
{
bc_num quotient = NULL;
bc_num temp;
```

```
int rscale;
/* Check for correct numbers. */
if (bc_is_zero (num2)) return -1;
/* Calculate final scale. */
rscale = MAX (num1->n_scale, num2->n_scale+scale);
bc_init_num(&temp);
/* Calculate it. */
bc_divide (num1, num2, &temp, scale);
if (quot)
 quotient = bc_copy_num (temp);
bc_multiply (temp, num2, &temp, rscale);
bc_sub (num1, temp, rem, rscale);
bc_free_num (&temp);
if (quot)
 {
  bc_free_num (quot);
   *quot = quotient;
  }
return 0; /* Everything is OK. */
/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
 result in RESULT. */
int
bc_modulo (num1, num2, result, scale)
  bc_num num1, num2, *result;
  int scale;
return bc_divmod (num1, num2, NULL, result, scale);
}
/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
 placed in RESULT. If a EXPO is not an integer,
 only the integer part is used. */
int
bc_raisemod (base, expo, mod, result, scale)
  bc_num base, expo, mod, *result;
  int scale;
bc_num power, exponent, parity, temp;
```

```
int rscale;
/* Check for correct numbers. */
if (bc_is_zero(mod)) return -1;
if (bc_is_neg(expo)) return -1;
/* Set initial values. */
power = bc_copy_num (base);
exponent = bc_copy_num (expo);
temp = bc_copy_num (_one_);
bc_init_num(&parity);
/* Check the base for scale digits. */
if (base->n_scale != 0)
  bc_rt_warn ("non-zero scale in base");
/* Check
the exponent for scale digits. */
if (exponent->n_scale != 0)
  bc_rt_warn ("non-zero scale in exponent");
  bc_divide (exponent, _one_, &exponent, 0); /*truncate */
 }
/* Check the modulus for scale digits. */
if (mod->n\_scale != 0)
  bc_rt_warn ("non-zero scale in modulus");
/* Do the calculation. */
rscale = MAX(scale, base->n scale);
while ( !bc_is_zero(exponent) )
  (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
  if ( !bc_is_zero(parity) )
 bc_multiply (temp, power, &temp, rscale);
 (void) bc_modulo (temp, mod, &temp, scale);
}
  bc_multiply (power, power, &power, rscale);
  (void) bc_modulo (power, mod, &power, scale);
 }
/* Assign the value. */
bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
```

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

```
/* Set initial value of temp. */
 power = bc_copy_num (num1);
 pwrscale = num1->n_scale;
 while ((exponent & 1) == 0)
   pwrscale = 2*pwrscale;
   bc_multiply (power, power, &power, pwrscale);
   exponent = exponent >> 1;
 temp = bc_copy_num (power);
 calcscale = pwrscale;
 exponent = exponent >> 1;
 /* Do the calculation. */
 while (exponent > 0)
   pwrscale = 2*pwrscale;
   bc_multiply (power, power, &power, pwrscale);
   if ((exponent \& 1) == 1) \{
 calcscale = pwrscale + calcscale;
 bc_multiply (temp, power, &temp, calcscale);
   exponent = exponent >> 1;
 /* Assign the value. */
 if (neg)
  {
   bc_divide (_one_, temp, result, rscale);
   bc_free_num (&temp);
  }
 else
   bc_free_num (result);
   *result = temp;
   if ((*result)->n_scale > rscale)
 (*result)->n_scale = rscale;
 bc_free_num (&power);
}
/* Take the square root NUM and return it in NUM with SCALE digits
 after the
decimal place. */
int
bc_sqrt (num, scale)
  bc_num *num;
```

```
int scale;
int rscale, cmp_res, done;
int cscale;
bc_num guess, guess1, point5, diff;
/* Initial checks. */
cmp_res = bc_compare (*num, _zero_);
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);
   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') \parallel (digits+strscale == 0))
  *num = bc_copy_num (_zero_);
  return;
/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
 {
  zero_int = TRUE;
  digits = 1;
*num = bc_new_num (digits, strscale);
/* Build the whole number. */
ptr = str;
if (*ptr == '-')
  (*num)->n\_sign = MINUS;
  ptr++;
 }
else
 {
  (*num)->n\_sign = PLUS;
  if (*ptr == '+') ptr++;
 }
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
```

```
if (zero_int)
  {
   *nptr++=0;
   digits = 0;
  }
for (;digits > 0; digits--)
  *nptr++ = CH_VAL(*ptr++);
/* Build the fractional part. */
if (strscale > 0)
   ptr++; /*
skip the decimal point! */
   for (;strscale > 0; strscale--)
*nptr++ = CH_VAL(*ptr++);
  }
}
/* pn prints the number NUM in base 10. */
static void
out_char (int c)
putchar(c);
}
void
pn (num)
  bc_num num;
bc_out_num (num, 10, out_char, 0);
out_char ('\n');
}
/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
  char *name;
  unsigned char *num;
  int len;
{
int i;
printf ("%s=", name);
for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
printf ("\n");
```

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Version 2.1, February 1999

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```

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1.10 icu 48

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```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2009, International Business Machines Corporation and
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## Commands to generate dependency files
GEN DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
## Compiler switch to embed a runtime search path
LD RPATH=
LD_RPATH_PRE= -Wl,-rpath,
## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
## Shared library options
LD_SOOPTIONS= -W1,-Bsymbolic
## Shared object suffix
```

```
## Non-shared intermediate object suffix
STATIC_O = ao
## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c)
$(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -0 $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN DEPS.c) $< \
| sed '''s/($*\).o[:]*/1.o $@:/g'''>$@;
 [-s $@] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN DEPS.cc) $< \
| sed '''s/(\$*)|.o[:]*/1.o \$@:/g'''>\$@;|
 [-s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## End FreeBSD-specific setup
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```

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```
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```

1.11 libevent 2.0.21

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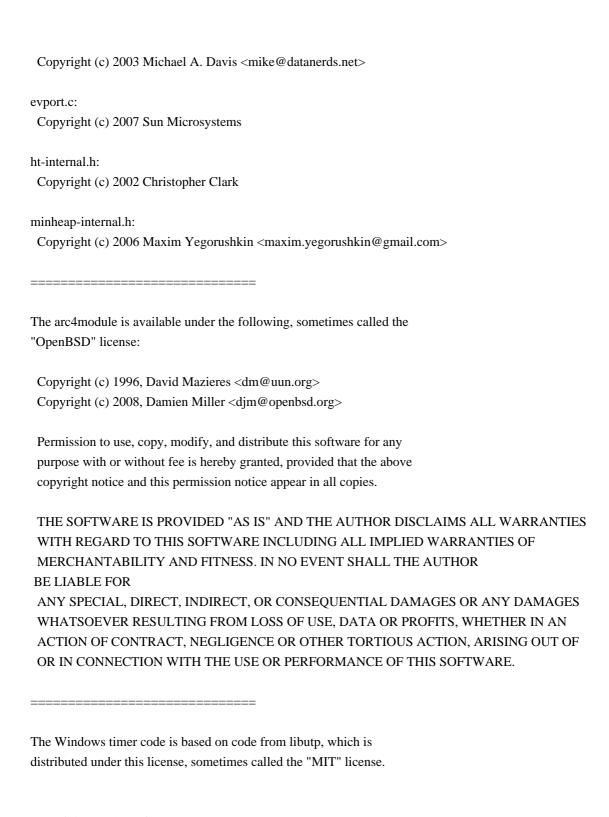
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1.12 libxml2 2.7.6-21.el6

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

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

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Release	Deriv	ed Yea	r Own	er GPL
	from		com	patible? (1)
0.9.0 thru	ı 1.2	1991-1	1995 CWI	[yes
1.3 thru 1	1.5.2 1.2	1995	-1999 CN	RI yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.o	com no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6	.1 2001	PSF	no
2.0.1	2.0+1.6	5.1 2001	PSF	yes
2.1.1	2.1+2.0	0.1 2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and a	bove 2.1	.1 200	1-now	
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2.0 1	.6	2000	BeOpe	en.com no	
1.6.1	1.6	2001	CNR	I no	
2.1 2	2.0+1.6.1	200	1 PS	F no	+
2.0.1	2.0+1.6.	1 200)1 PS	F yes	
2.1.1	2.1+2.0.	1 200)1 PS	F yes	
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Mersenne Twister

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

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

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

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Any feedback is very welcome.

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

Sockets

The :mod:`socket`

module uses the functions, :func:`getaddrinfo`, and

:func:`getnameinfo`, which are coded in separate source files from the WIDE

Project, http://www.wide.ad.jp/. ::

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Asynchronous socket services

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Cookie 1	nanagement
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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

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

XML Remote	Procedure	Calls

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SipHash24

The file: 'Python/pyhash.c' contains Marek

Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

https://github.com/majek/csiphash/

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little) djb (supercop/crypto_auth/siphash24/little2) Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file: 'Python/dtoa.c', which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

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1.18 libsepol 2.5-6.el7

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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 to run.

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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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(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

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

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

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

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

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Version 2.1, February 1999

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

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

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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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.)

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.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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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

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Version 3, 29 June 2007

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification

follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

the scope of this License.

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

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. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

- 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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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software

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

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

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

We call this license the "Lesser" General Public License because it

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

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

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

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

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

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terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work 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.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

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1.23 elfutils 0.168-8.el7

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1.26 efivar 31-4.el7

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1.27 libjpeg 8d

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.

LEGAL ISSUES Copyright, lack of warranty,

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REFERENCES Where to learn more about JPEG.

ARCHIVE LOCATIONS Where to find newer versions of this software.

ACKNOWLEDGMENTS Special thanks.

FILE FORMAT WARS Software *not* to get.

TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.

usage.txt Usage instructions for cjpeg, djpeg, jpegtran,

rdjpgcom, and wrjpgcom.

*.1 Unix-style man pages for programs (same info as usage.txt).

wizard.txt Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.

example.c Sample code for calling the JPEG library.

structure.txt Overview of the JPEG library's internal structure.

filelist.txt

Road map of IJG files.

coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information

can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software

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The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in

that issue discuss MPEG motion picture compression,

applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general.

The book's JPEG

sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany. IJG JPEG 9 introduces a reversible color transform

for improved lossless

compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011): Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from

ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org.

The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr9c.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites,

including the official news.answers

archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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ACKNOWLEDGMENTS

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16)

meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual

requirements for the maintenance of the original JPEG specification. Furthermore.

the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

1.28 glibc 2.17-196.el7

1.28.1 Available under license:

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

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That's all there is to it!

1.29 ipmi-tool 1.8.11

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1.33 at-spi2-core 2.22.0-1.el7

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1.34 busybox 1.21.0

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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The

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1.39 kmod 20-15.el7_4.7

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 its purpose remains meaningful.

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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation

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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,

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General Public License therefore permits such linking only if the entire
combination fits its criteria of freedom. The Lesser General Public

License permits more lax criteria for linking other code with the
library.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same

job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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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.

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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.)

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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

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

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

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

However, linking a ``work that uses the Library" with the Library creates

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

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

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

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

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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:

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

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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

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

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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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@center How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
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That's all there is to it!

@c @bye

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Version 2.1, February 1999

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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.

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1.41 libpcap 1.7.3

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1.42 bsf 2.4.0

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1.43 netperf 2.6.0

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1.44 libusb 1.0.21

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.gitignore
builds/unix/pkg.m4
docs/FTL.TXT
docs/GPLv2.TXT
include/freetype/internal/fthash.h
src/base/fthash.c
src/base/md5.c
src/base/md5.h
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
```

```
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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1.46 acl 2.2.53

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1.55 xz 5.2.2 1.el7

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1.56 ncurses 5.9 14.20130511.el7 4

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1.57 libcap 2.22 9.el7

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Mesa 3-D graphics library

Version: 7.0

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This license, the Lesser General Public License, applies to some specially designated software---typically

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be combined with the library in order to run.

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Otherwise.

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@subheading END OF TERMS AND CONDITIONS

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and a brief idea of what it does.}
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@smallexample

Gnomovision version

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@example

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will

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1.70 netbsd-resolv 2.17 196.el7_4.2

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1.71 e2fsprogs 1.42.9 10.el7

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c +++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

/ /

- Unix SMB/CIFS implementation.

- + trivial database library standalone version
- trivial database library private includes

-

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If you develop a new program, and you want it to be of the greatest 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 convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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

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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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:

http://sourceforge.net/projects/e2fsprogs

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

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Theodore Ts'o		
23-June-2007		

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Version 2, June 1991

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

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Version 2, June 1991

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

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Finally, any free program is threatened

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense

simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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Activities other than

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

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

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

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

copy the source along with the object code.

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

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

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
#

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/SD_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)
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: tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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

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

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

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

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1.72 avahi 0.6.31 17.el7

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1.73 curl 7.28.1

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1.74 libffi 3.0.13

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1.75 strace 4.12

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1.76 libx11 3.22.10-5.el7_4

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1.82 libnotify 0.5.0-1.el6

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- * (Deinst@world.std.com). David and I are now
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- * and we will maintain full affix file and dictionary
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- * of MySpell back into a single tree. David has been
- * a significant help in improving MySpell.

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- * Special thanks also go to La'szlo' Ne'meth
- * <nemethl@gyorsposta.hu> who is the author of the
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- * the code to support compound words in MySpell
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1.89 xorg-server 1.14.2

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

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1.94 memstat 0.8

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1.96 libxext 1.3.1

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1.97 libxi 1.6.1

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1.98 libxfont 1.4.5

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1.99 libxcursor 1.1.13

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1.100 libxaw 1.0.7

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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b) Accompany

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

- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

executable.

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

7. You may place library facilities that are a work based on the

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

That's all there is to it!

1.104 time 1.7

1.104.1 Available under license:

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

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- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete

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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.

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1.105 ezxml 0.8.6

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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

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1.110 dmidecode 3.5

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

The "Library", below, refers to any such software library or work which has been

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

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

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

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

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

- 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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. Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

engineering for debugging such modifications.

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

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

b) Accompany

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

- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

executable.

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

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

That's all there is to it!

1.112 libasyncns 0.8-7.el7

1.112.1 Available under license:

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software

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

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

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

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

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

case, there is little to gain by limiting
the free library to free
software only, so we use the Lesser General Public License.

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

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

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- 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
- a) The modified work must itself be a software library.
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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public

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

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

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

machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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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.
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normally

distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.115 libxmu 1.1.1

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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

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

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from

it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!

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

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

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

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

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

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

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

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