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1.3 e2fsprogs 1.42.9

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

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License.
Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.5 bzip2 1.0.6

1.5.1 Available under license :

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

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/*
  minibz2
    libbz2.dll test program.
    by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
    This file is Public Domain. Welcome any email to me.

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

1.6 unzip 6.0

1.6.1 Available under license :

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This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

FIRST NOTE:
This file contains some details about the copyright history of
contributions to the UnZip project.
Additionally, it summarises some exceptions to the general BSD-like
copyright found in LICENSE that covers our generic code and most of
the system specific ports.
Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

- -

There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port).. These copyrights
are discussed in more detail below.

All remaining
code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion
core routines, previously put into the public domain). All these
Info-ZIP contributors (or "primary" authors) have permitted us to
replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access

rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip
5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is
needed, the unreduce code copyrighted by Samuel H. Smith is available
as a separate distribution (the restricted copyright of this code is
cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code
(macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
  * (Apple Macintosh Developer Technical Support Emeritus)
  * Copyright  1992-1998
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  * Portions copyright  1995 Jim Luther
  * All rights reserved.
  * The Package "More Files" is distributed under the following
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  *
  *         "You may incorporate this sample code into your
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  *          redistribute the source, we require that you make
  *          it clear in the source that the code was descended
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  *          changes."
```

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Info-ZIP license, they do not add further restrictions.

The following
copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

```
  *  MacBinaryIII.h
  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
  *  MacBinary III spec.
  * ---------------------------------------------------------------------
  * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
  * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
  * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

This copyright note does not contain any usage terms. So, we assume
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only:

The following copyright applies to the full-featured unreduce.c
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```
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  *
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  * Do not use any of this in a commercial product.
```

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

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

Despite the fact that our "normal" code has been entirely rewritten
and by default

no longer contains any of Mr. Smith's code, Info-ZIP
remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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```
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```

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```
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  * are made.)  Corporate legal staff (like at IBM :-) ) who have
  * problems understanding this can contact me through Zip-Bugs...
```

The following copyright applied to the Windows DLL code (windll/*), distributed with UnZip version 5.2 and later:

```
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```

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

1.7 util-linux 2.24.2

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Version 2.1, February 1999

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1.9 ncurses 5.9

1.9.1 Available under license :

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

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1.10 findutils 4.4.2

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

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

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

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

/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;

static bc_num _bc_Free_list = NULL;

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

bc_num
bc_new_num (length, scale)
   int length, scale;
{
```

```
 bc_num temp;

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

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

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


/* Intitialize the number package! */

void
bc_init_numbers ()
{
 _zero_ = bc_new_num (1,0);
 _one_  = bc_new_num (1,0);
 _one_->n_value[0] = 1;
 _two_  = bc_new_num (1,0);
```

```
 _two_->n_value[0] = 2;
}


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

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


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

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

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

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


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

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
```

```
   int use_sign;
   int ignore_last;
{
 char *n1ptr, *n2ptr;
 int  count;

 /* First, compare
 signs. */
 if (use_sign && n1->n_sign != n2->n_sign)
   {
    if (n1->n_sign == PLUS)
 return (1); /* Positive N1 > Negative N2 */
    else
 return (-1); /* Negative N1 < Positive N1 */
   }

 /* Now compare the magnitude. */
 if (n1->n_len != n2->n_len)
   {
    if (n1->n_len > n2->n_len)
 {
   /* Magnitude of n1 > n2. */
   if (!use_sign || n1->n_sign == PLUS)
     return (1);
   else
     return (-1);
 }
    else
 {
   /* Magnitude of n1 < n2. */
   if (!use_sign || n1->n_sign == PLUS)
     return (-1);
   else
     return (1);
 }
   }

 /* If we get here, they have the same number of integer digits.
    check the integer part and the equal length part of the fraction. */
 count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
 n1ptr = n1->n_value;
 n2ptr = n2->n_value;

 while ((count > 0) && (*n1ptr == *n2ptr))
   {
    n1ptr++;
    n2ptr++;
    count--;
```

```
  }
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
  return (0);
if (count !=
0)
  {
    if (*n1ptr > *n2ptr)
{
  /* Magnitude of n1 > n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (1);
  else
    return (-1);
}
    else
{
  /* Magnitude of n1 < n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (-1);
  else
    return (1);
}
  }

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

```
    return (1);
      }
 }
  }

 /* They must be equal! */
 return (0);
}


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

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

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

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

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

char
bc_is_zero (num)
    bc_num num;
{
 int  count;
 char *nptr;

 /* Quick check. */
 if (num == _zero_) return TRUE;

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

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

```
 if (count != 0)
   return FALSE;
 else
   return TRUE;
}

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

char
bc_is_near_zero (num, scale)
     bc_num num;
     int scale;
{
 int  count;
 char *nptr;

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

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

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

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


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

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

```
int carry, n1bytes, n2bytes;
int count;

/* Prepare sum. */
sum_scale = MAX (n1->n_scale, n2->n_scale);
sum_digits = MAX (n1->n_len, n2->n_len) + 1;
sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > sum_scale)
  {
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
    for (count = scale_min - sum_scale; count > 0; count--)
*sumptr++
= 0;
  }

/* Start with the fraction part.  Initialize the pointers. */
n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part.  First copy the longer fraction.*/
if (n1bytes != n2bytes)
  {
    if (n1bytes > n2bytes)
while (n1bytes>n2bytes)
  { *sumptr-- = *n1ptr--; n1bytes--;}
    else
while (n2bytes>n1bytes)
  { *sumptr-- = *n2ptr--; n2bytes--;}
  }

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
  {
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
{
   carry = 1;
   *sumptr -= BASE;
}
    else
```

```
 carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
  }

 /* Now add carry the
 longer integer part. */
 if (n1bytes == 0)
  { n1bytes = n2bytes; n1ptr = n2ptr; }
 while (n1bytes-- > 0)
  {
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
 {
   carry = 1;
   *sumptr -= BASE;
 }
    else
 carry = 0;
    sumptr--;
  }

 /* Set final carry. */
 if (carry == 1)
  *sumptr += 1;

 /* Adjust sum and return. */
 _bc_rm_leading_zeros (sum);
 return sum;
}


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

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

```
/* Allocate temporary storage. */
diff_len = MAX (n1->n_len, n2->n_len);
diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN  (n1->n_len, n2->n_len);
 min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
  {
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
*diffptr++ = 0;
  }

/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
  {
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
  }
else
  {
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
{
  val = - *n2ptr-- - borrow;
  if (val < 0)

{
      val += BASE;
      borrow = 1;
    }
  else
    borrow = 0;
  *diffptr-- = val;
}
  }
```

```
 /* Now do the equal length scale and integer parts. */

 for (count = 0; count < min_len + min_scale; count++)
   {
     val = *n1ptr-- - *n2ptr-- - borrow;
     if (val < 0)
 {
   val += BASE;
   borrow = 1;
 }
     else
 borrow = 0;
     *diffptr-- = val;
   }

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

 /* Clean up and return. */
 _bc_rm_leading_zeros (diff);
 return diff;
}


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

void
bc_sub (n1, n2, result, scale_min)

     bc_num n1, n2, *result;
     int scale_min;
```

```
{
 bc_num diff = NULL;
 int cmp_res;
 int res_scale;

 if (n1->n_sign != n2->n_sign)
   {
     diff = _bc_do_add (n1, n2, scale_min);
     diff->n_sign = n1->n_sign;
   }
 else
   {
     /* subtraction must be done. */
     /* Compare magnitudes. */
     cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
     switch (cmp_res)
 {
 case -1:
   /* n1 is less than n2, subtract n1 from n2. */
   diff = _bc_do_sub (n2, n1, scale_min);
   diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
   break;
 case  0:
   /* They are equal! return zero! */
   res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
   diff = bc_new_num (1, res_scale);
   memset (diff->n_value, 0, res_scale+1);
   break;
 case  1:
   /* n2 is less than n1, subtract n2 from n1. */
   diff = _bc_do_sub (n1, n2, scale_min);
   diff->n_sign = n1->n_sign;
   break;
 }
   }

 /* Clean up and return. */
 bc_free_num (result);
 *result = diff;
}


/* Here is the
 full add routine that takes care of negative numbers.
  N1 is added to N2 and the result placed into RESULT.  SCALE_MIN
  is the minimum scale for the result. */

void
```

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

 if (n1->n_sign == n2->n_sign)
   {
     sum = _bc_do_add (n1, n2, scale_min);
     sum->n_sign = n1->n_sign;
   }
 else
   {
     /* subtraction must be done. */
     cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);  /* Compare magnitudes. */
     switch (cmp_res)
{
 case -1:
   /* n1 is less than n2, subtract n1 from n2. */
   sum = _bc_do_sub (n2, n1, scale_min);
   sum->n_sign = n2->n_sign;
   break;
 case  0:
   /* They are equal! return zero with the correct scale! */
   res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
   sum = bc_new_num (1, res_scale);
   memset (sum->n_value, 0, res_scale+1);
   break;
 case  1:
   /* n2 is less than n1, subtract n2 from
 n1. */
   sum = _bc_do_sub (n1, n2, scale_min);
   sum->n_sign = n1->n_sign;
 }
   }

 /* Clean up and return. */
 bc_free_num (result);
 *result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
```

```
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
 bc_num temp;

 if (_bc_Free_list != NULL) {
   temp = _bc_Free_list;
   _bc_Free_list = temp->n_next;
 } else {
   temp = (bc_num) malloc (sizeof(bc_struct));
   if (temp == NULL) bc_out_of_memory ();
 }
 temp->n_sign = PLUS;
 temp->n_len = length;
 temp->n_scale = scale;
 temp->n_refs = 1;
 temp->n_ptr = NULL;
 temp->n_value = value;
 return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
      int full_scale)
{
  char *n1ptr, *n2ptr, *pvptr;
 char *n1end, *n2end;  /* To the end of n1 and n2. */
 int indx, sum, prodlen;

 prodlen = n1len+n2len+1;

 *prod = bc_new_num (prodlen, 0);

 n1end = (char *) (n1->n_value + n1len - 1);
 n2end = (char *) (n2->n_value + n2len - 1);
 pvptr = (char *) ((*prod)->n_value + prodlen - 1);
 sum = 0;

 /* Here is the loop... */
```

```
 for (indx = 0; indx < prodlen-1; indx++)
   {
     n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
     n2ptr = (char *) (n2end - MIN(indx, n2len-1));
     while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
 sum += *n1ptr-- * *n2ptr++;
     *pvptr-- = sum % BASE;
     sum = sum / BASE;
   }
 *pvptr = sum;
}


/* A special adder/subtractor for the recursive divide and conquer
  multiply algorithm.  Note: if sub is called, accum must
  be larger that what is being subtracted.  Also, accum and val
  must have n_scale = 0.  (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int
 shift, int sub)
{
 signed char *accp, *valp;
 int  count, carry;

 count = val->n_len;
 if (val->n_value[0] == 0)
   count--;
 assert (accum->n_len+accum->n_scale >= shift+count);

 /* Set up pointers and others */
 accp = (signed char *)(accum->n_value +
    accum->n_len + accum->n_scale - shift - 1);
 valp = (signed char *)(val->n_value + val->n_len - 1);
 carry = 0;

 if (sub) {
   /* Subtraction, carry is really borrow. */
   while (count--) {
     *accp -= *valp-- + carry;
     if (*accp < 0) {
 carry = 1;
       *accp-- += BASE;
     } else {
 carry = 0;
 accp--;
     }
   }
   while (carry) {
```

```
    *accp -= carry;
    if (*accp < 0)
*accp-- += BASE;
    else
carry = 0;
  }
 } else {
  /* Addition */
  while (count--) {
    *accp += *valp-- + carry;
    if (*accp > (BASE-1)) {
carry = 1;
      *accp-- -= BASE;
    } else {
carry = 0;
accp--;
    }
  }
  while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
*accp--
-= BASE;
    else
carry = 0;
  }
 }
}

/* Recursive divide and conquer multiply algorithm.
  Based on
  Let u = u0 + u1*(b^n)
  Let v = v0 + v1*(b^n)
  Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

  B is the base of storage, number of digits in u1,u0 close to equal.
*/
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
      int full_scale)
{
 bc_num u0, u1, v0, v1;
 int u0len, v0len;
 bc_num m1, m2, m3, d1, d2;
 int n, prodlen, m1zero;
 int d1len, d2len;

 /* Base case? */
```

```
if ((ulen+vlen) < mul_base_digits
    || ulen < MUL_SMALL_DIGITS
    || vlen < MUL_SMALL_DIGITS ) {
  _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
  return;
}

/* Calculate n -- the u and v split point in digits. */
n = (MAX(ulen, vlen)+1) / 2;

/* Split u and v. */
if (ulen < n) {
  u1 = bc_copy_num (_zero_);
  u0 = new_sub_num (ulen,0, u->n_value);
} else {
  u1 = new_sub_num (ulen-n, 0, u->n_value);
  u0 =
new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
  v1 = bc_copy_num (_zero_);
  v0 = new_sub_num (vlen,0, v->n_value);
} else {
  v1 = new_sub_num (vlen-n, 0, v->n_value);
  v0 = new_sub_num (n, 0, v->n_value+vlen-n);
  }
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

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



/* Do recursive multiplies and shifted adds. */
if (m1zero)
  m1 = bc_copy_num (_zero_);
```

```
 else
   _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

 if (bc_is_zero(d1) || bc_is_zero(d2))
   m2 = bc_copy_num (_zero_);
 else
   _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

 if (bc_is_zero(u0) || bc_is_zero(v0))
   m3 = bc_copy_num (_zero_);
 else
   _bc_rec_mul
(u0, u0->n_len, v0, v0->n_len, &m3, 0);

 /* Initialize product */
 prodlen = ulen+vlen+1;
 *prod = bc_new_num(prodlen, 0);

 if (!m1zero) {
   _bc_shift_addsub (*prod, m1, 2*n, 0);
   _bc_shift_addsub (*prod, m1, n, 0);
 }
 _bc_shift_addsub (*prod, m3, n, 0);
 _bc_shift_addsub (*prod, m3, 0, 0);
 _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

 /* Now clean up! */
 bc_free_num (&u1);
 bc_free_num (&u0);
 bc_free_num (&v1);
 bc_free_num (&m1);
 bc_free_num (&v0);
 bc_free_num (&m2);
 bc_free_num (&m3);
 bc_free_num (&d1);
 bc_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
  the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
  */

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
 bc_num pval;
```

```
 int len1, len2;
 int full_scale, prod_scale;

 /* Initialize things. */
 len1 = n1->n_len + n1->n_scale;
 len2 = n2->n_len + n2->n_scale;
 full_scale
 = n1->n_scale + n2->n_scale;
 prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

 /* Do the multiply */
 _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

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

/* Some utility routines for the divide:  First a one digit multiply.
  NUM (with SIZE digits) is multiplied by DIGIT and the result is
  placed into RESULT.  It is written so that NUM and RESULT can be
  the same pointers.  */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
 int carry, value;
 unsigned char *nptr, *rptr;

 if (digit == 0)
   memset (result, 0, size);
 else
   {
     if
 (digit == 1)
 memcpy (result, num, size);
     else
 {
```

```
  /* Initialize */
  nptr = (unsigned char *) (num+size-1);
  rptr = (unsigned char *) (result+size-1);
  carry = 0;

  while (size-- > 0)
    {
      value = *nptr-- * digit + carry;
      *rptr-- = value % BASE;
      carry = value / BASE;
    }

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


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

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
 bc_num qval;
 unsigned char *num1, *num2;
 unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
 int  scale1, val;
 unsigned int  len1, len2, scale2, qdigits, extra, count;
 unsigned int  qdig, qguess, borrow, carry;
 unsigned char *mval;
 char zero;
 unsigned int  norm;

 /* Test
 for divide by zero. */
 if (bc_is_zero (n2)) return -1;

 /* Test for divide by 1.  If it is we must truncate. */
 if (n2->n_scale == 0)
   {
     if (n2->n_len == 1 && *n2->n_value == 1)
 {
   qval = bc_new_num (n1->n_len, scale);
```

```
  qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
  memset (&qval->n_value[n1->n_len],0,scale);
  memcpy (qval->n_value, n1->n_value,
   n1->n_len + MIN(n1->n_scale,scale));
  bc_free_num (quot);
  *quot = qval;
}
  }

/* Set up the divide.  Move the decimal point on n1 by n2's scale.
   Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
  extra = scale - scale1;
else
  extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();

memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
  {
    n2ptr++;
    len2--;
  }

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
  {
    qdigits = scale+1;
    zero = TRUE;
  }
else
  {
    zero = FALSE;
```

```
    if (len2>len1)
qdigits = scale+1;   /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
  }

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
  {
    /* Normalize
*/
    norm =  10 / ((int)*n2ptr + 1);
    if (norm != 1)
{
  _one_mult (num1, len1+scale1+extra+1, norm, num1);
  _one_mult (n2ptr, len2, norm, n2ptr);
}

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;
    else
qptr = (unsigned char *) qval->n_value;

    /* Loop */
    while (qdig <= len1+scale-len2)
{
  /* Calculate the quotient digit guess. */
  if (*n2ptr == num1[qdig])
    qguess = 9;
  else
    qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

  /* Test qguess. */
  if (n2ptr[1]*qguess >
      (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
       + num1[qdig+2])
    {
      qguess--;
```

```
    /* And again. */
    if (n2ptr[1]*qguess >
 (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
 + num1[qdig+2])
qguess--;
  }

 /* Multiply and subtract. */
 borrow = 0;
 if (qguess != 0)
  {
    *mval = 0;
    _one_mult (n2ptr, len2, qguess, mval+1);

   ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) mval+len2;
    for (count = 0; count < len2+1; count++)
{
  val = (int) *ptr1 - (int) *ptr2-- - borrow;
  if (val < 0)
    {
      val += 10;
      borrow = 1;
    }
  else
    borrow = 0;
  *ptr1-- = val;
}
  }

 /* Test for negative result. */
 if (borrow == 1)
  {
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
{
  val = (int) *ptr1 + (int) *ptr2-- + carry;
  if (val > 9)
    {
      val -= 10;
      carry = 1;
    }
  else
    carry = 0;
  *ptr1-- = val;
```

```
 }
     if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
    }

  /* We now know the quotient digit. */
  *qptr++ =  qguess;
  qdig++;
}
  }

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign
= PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
}


/* Division *and* modulo for numbers.  This computes both NUM1 / NUM2 and
  NUM1 % NUM2  and puts the results in QUOT and REM, except that if QUOT
  is NULL then that store will be omitted.
*/

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

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

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

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

 if (quot)
   {
     bc_free_num (quot);
      *quot = quotient;
   }

 return 0; /* Everything is OK. */
}


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

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
 return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD.  The result is
  placed in RESULT.  If a EXPO is not an integer,
  only the integer part is used.  */

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
 bc_num power, exponent, parity, temp;
 int rscale;

 /* Check for correct numbers. */
 if (bc_is_zero(mod)) return -1;
 if (bc_is_neg(expo)) return -1;

 /* Set initial values.  */
 power = bc_copy_num (base);
 exponent = bc_copy_num (expo);
```

```
 temp = bc_copy_num (_one_);
 bc_init_num(&parity);

 /* Check the base for scale digits. */
 if (base->n_scale != 0)
    bc_rt_warn ("non-zero scale in base");

 /* Check
 the exponent for scale digits. */
 if (exponent->n_scale != 0)
   {
    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncate */
   }

 /* Check the modulus for scale digits. */
 if (mod->n_scale != 0)
    bc_rt_warn ("non-zero scale in modulus");

 /* Do the calculation. */
 rscale = MAX(scale, base->n_scale);
 while ( !bc_is_zero(exponent) )
   {
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
{
  bc_multiply (temp, power, &temp, rscale);
  (void) bc_modulo (temp, mod, &temp, scale);
}

    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
   }

 /* Assign the value. */
 bc_free_num (&power);
 bc_free_num (&exponent);
 bc_free_num (result);
 *result = temp;
 return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power.  The result is placed in RESULT.
  Maximum exponent is LONG_MAX.  If a NUM2 is not an
 integer,
  only the integer part is used.  */

void
```

```
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
  bc_num temp, power;
  long exponent;
  int rscale;
  int pwrscale;
  int calcscale;
  char neg;

  /* Check the exponent for scale digits and convert to a long. */
  if (num2->n_scale != 0)
    bc_rt_warn ("non-zero scale in exponent");
  exponent = bc_num2long (num2);
  if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
      bc_rt_error ("exponent too large in raise");

  /* Special case if exponent is a zero. */
  if (exponent == 0)
    {
      bc_free_num (result);
      *result = bc_copy_num (_one_);
      return;
    }

  /* Other initializations. */
  if (exponent < 0)
    {
      neg = TRUE;
      exponent = -exponent;
      rscale = scale;
    }
  else
    {
      neg = FALSE;
      rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
    }

  /* Set initial value of temp.  */
   power = bc_copy_num (num1);
  pwrscale = num1->n_scale;
  while ((exponent & 1) == 0)
    {
      pwrscale = 2*pwrscale;
      bc_multiply (power, power, &power, pwrscale);
      exponent = exponent >> 1;
    }
```

```
 temp = bc_copy_num (power);
 calcscale = pwrscale;
 exponent = exponent >> 1;

 /* Do the calculation. */
 while (exponent > 0)
   {
     pwrscale = 2*pwrscale;
     bc_multiply (power, power, &power, pwrscale);
     if ((exponent & 1) == 1) {
 calcscale = pwrscale + calcscale;
 bc_multiply (temp, power, &temp, calcscale);
     }
     exponent = exponent >> 1;
   }

 /* Assign the value. */
 if (neg)
   {
     bc_divide (_one_, temp, result, rscale);
     bc_free_num (&temp);
   }
 else
   {
     bc_free_num (result);
     *result = temp;
     if ((*result)->n_scale > rscale)
 (*result)->n_scale = rscale;
   }
 bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
  after the
 decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
 int rscale, cmp_res, done;
 int cscale;
 bc_num guess, guess1, point5, diff;

 /* Initial checks. */
 cmp_res = bc_compare (*num, _zero_);
 if (cmp_res < 0)
```

```
  return 0;  /* error */
else
  {
    if (cmp_res == 0)
{
  bc_free_num (num);
  *num = bc_copy_num (_zero_);
  return 1;
}
  }
cmp_res = bc_compare (*num, _one_);
if (cmp_res == 0)
  {
    bc_free_num (num);
    *num = bc_copy_num (_one_);
    return 1;
  }

/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;


/* Calculate the initial guess. */
if (cmp_res < 0)
  {
    /* The number is between 0 and 1.  Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
  }
else
  {
    /* The number is greater than 1.  Guess should
start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
  }
```

```
 /* Find the square root using Newton's algorithm. */
 done = FALSE;
 while (!done)
   {
     bc_free_num (&guess1);
     guess1 = bc_copy_num (guess);
     bc_divide (*num, guess, &guess, cscale);
     bc_add (guess, guess1, &guess, 0);
     bc_multiply (guess, point5, &guess, cscale);
     bc_sub (guess, guess1, &diff, cscale+1);
     if (bc_is_near_zero (diff, cscale))
 {
   if (cscale < rscale+1)
     cscale = MIN (cscale*3, rscale+1);
   else
     done = TRUE;
 }
   }

 /* Assign the number and clean up. */
 bc_free_num (num);
 bc_divide (guess,_one_,num,rscale);
 bc_free_num (&guess);
 bc_free_num (&guess1);
 bc_free_num (&point5);
 bc_free_num (&diff);
 return 1;
}


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

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

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


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

```
void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
 char digits[40];
 int len, ix;

 if (space) (*out_char) (' ');
 sprintf (digits, "%ld", val);
 len = strlen (digits);
 while (size > len)
   {
    (*out_char) ('0');
    size--;
   }
 for (ix=0; ix < len; ix++)
   (*out_char) (digits[ix]);
}

/*
 Output of a bcd number.  NUM is written in base O_BASE using OUT_CHAR
  as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
 char *nptr;
 int  index, fdigit, pre_space;
 stk_rec *digits, *temp;
 bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

 /* The negative sign if needed. */
 if (num->n_sign == MINUS) (*out_char) ('-');
```

```
/* Output the number. */
if (bc_is_zero (num))
  (*out_char) ('0');
else
  if (o_base == 10)
    {
/* The number is in base 10, do it the fast way. */
nptr = num->n_value;
if (num->n_len > 1 || *nptr != 0)
  for (index=num->n_len; index>0; index--)
    (*out_char) (BCD_CHAR(*nptr++));
else
  nptr++;

if (leading_zero && bc_is_zero (num))
  (*out_char) ('0');

/* Now the fraction. */
if (num->n_scale > 0)
  {

 (*out_char) ('.');
    for (index=0; index<num->n_scale; index++)
      (*out_char) (BCD_CHAR(*nptr++));
  }
    }
  else
    {
/* special case ... */
if (leading_zero && bc_is_zero (num))
  (*out_char) ('0');

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

```
/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
  {
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bc_divide
(int_part, base, &int_part, 0);
  }

/* Print the digits on the stack. */
if (digits != NULL)
  {
    /* Output the digits. */
    while (digits != NULL)
      {
 temp = digits;
 digits = digits->next;
 if (o_base <= 16)
   (*out_char) (ref_str[ (int) temp->digit]);
 else
   bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
 free (temp);
      }
  }

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
  {
    (*out_char) ('.');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
      bc_multiply (frac_part, base, &frac_part, num->n_scale);
      fdigit = bc_num2long (frac_part);
      bc_int2num (&int_part, fdigit);
      bc_sub (frac_part, int_part, &frac_part, 0);
      if (o_base <= 16)
 (*out_char) (ref_str[fdigit]);
      else {
 bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
 pre_space = 1;
      }
      bc_multiply (t_num, base, &t_num, 0);
```

```
    }

   bc_free_num (&t_num);
  }

 /* Clean up. */
 bc_free_num (&int_part);
 bc_free_num (&frac_part);
 bc_free_num (&base);
 bc_free_num (&cur_dig);
 bc_free_num (&max_o_digit);
    }
}
/* Convert a number NUM to a long.  The function returns only the integer
  part of the number.  For numbers that are too large to represent as
  a long, this function returns a zero.  This can be detected by checking
  the NUM for zero after having a zero returned. */

long
bc_num2long (num)
   bc_num num;
{
 long val;
 char *nptr;
 int  index;

 /* Extract the int value, ignore the fraction. */
 val = 0;
 nptr = num->n_value;
 for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
   val = val*BASE + *nptr++;

 /* Check for overflow.  If overflow, return zero. */
 if (index>0) val = 0;
 if (val < 0) val = 0;

 /* Return the value. */
 if (num->n_sign == PLUS)
   return (val);
 else
   return (-val);
}


/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num
```

```
 (num, val)
    bc_num *num;
    int val;
{
 char buffer[30];
 char *bptr, *vptr;
 int  ix = 1;
 char neg = 0;

 /* Sign. */
 if (val < 0)
   {
     neg = 1;
     val = -val;
   }

 /* Get things going. */
 bptr = buffer;
 *bptr++ = val % BASE;
 val = val / BASE;

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

 /* Make the number. */
 bc_free_num (num);
 *num = bc_new_num (ix, 0);
 if (neg) (*num)->n_sign = MINUS;

 /* Assign the digits. */
 vptr = (*num)->n_value;
 while (ix-- > 0)
   *vptr++ = *--bptr;
}

/* Convert a numbers to a string.  Base 10 only.*/

char
*num2str (num)
     bc_num num;
{
 char *str, *sptr;
 char *nptr;
```

```
 int  index, signch;

 /* Allocate the string memory. */
 signch = ( num->n_sign == PLUS ? 0 : 1 );  /* Number of sign chars. */
 if (num->n_scale > 0)
   str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);

 else
   str = (char *) malloc (num->n_len + 1 + signch);
 if (str == NULL) bc_out_of_memory();

 /* The negative sign if needed. */
 sptr = str;
 if (signch) *sptr++ = '-';

 /* Load the whole number. */
 nptr = num->n_value;
 for (index=num->n_len; index>0; index--)
   *sptr++ = BCD_CHAR(*nptr++);

 /* Now the fraction. */
 if (num->n_scale > 0)
   {
     *sptr++ = '.';
     for (index=0; index<num->n_scale; index++)
 *sptr++ = BCD_CHAR(*nptr++);
   }

 /* Terminate the string and return it! */
 *sptr = '\0';
 return (str);
}
/* Convert strings to bc numbers.  Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
 int digits, strscale;
 char *ptr, *nptr;
 char zero_int;

 /* Prepare num. */
 bc_free_num (num);

 /* Check for valid number and count digits. */
```

```
ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ( (*ptr == '+') || (*ptr == '-'))  ptr++;  /* Sign */
while (*ptr == '0') ptr++;   /* Skip
leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++;   /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '\0') || (digits+strscale == 0))
  {
    *num = bc_copy_num (_zero_);
    return;
  }

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
  {
    zero_int = TRUE;
    digits = 1;
  }
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-')
  {
    (*num)->n_sign = MINUS;
    ptr++;
  }
else
  {
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
  }
while (*ptr == '0') ptr++;   /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
  {
    *nptr++ = 0;
    digits = 0;
  }
for (;digits > 0; digits--)
  *nptr++ = CH_VAL(*ptr++);
```

```
 /* Build the fractional part. */
 if (strscale > 0)
   {
     ptr++;  /*
 skip the decimal point! */
     for (;strscale > 0; strscale--)
 *nptr++ = CH_VAL(*ptr++);
   }
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
 putchar(c);
}



void
pn (num)
    bc_num num;
{
 bc_out_num (num, 10, out_char, 0);
 out_char ('\n');
}



/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
 int i;
 printf ("%s=", name);
 for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
 printf ("\n");
}
```

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1.18 libmnl 1.0.4

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1.19 openssl 1.0.2k

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1.20 pcre 8.43

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1.21 cpio 2.11

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1.23 zlib 1.2.8

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1.24 diffutils 3.3

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1.25 zlib 1.2.5

1.25.1 Available under license :

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

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1.26 coreutils 8.22

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1.29 harfbuzz 0.9.35

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1.30 elfutils 0.148

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

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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==========

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Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created
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1.6.1	1.6	2001	CNRI	no
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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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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
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Asynchronous socket services

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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

The :mod:`xmlrpc.client` module contains the following notice::

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The file :file:`Python/pyhash.c` contains Marek
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Original location:
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Solution inspired by code from:
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  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson
(https://131002.net/siphash/siphash24.c)

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 * The implementation was written so as to conform with Netscapes SSL.
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cfuhash

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1.33 json-c 0.99.8

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1.34 patch 2.7.1

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This option is useful when you wish to copy part of the code of the

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b) Accompany the
work with a written offer, valid for at
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<signature of Ty Coon>, 1 April 1990
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1.40 grep 2.19

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1.42 net-tools 1.60

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@end enumerate

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

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

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

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

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

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@subheading END OF TERMS AND CONDITIONS

@page
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Ty Coon, President of Vice
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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.

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

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

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

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

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

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

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

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

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

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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
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or
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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.

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

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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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1.45 busybox 1.22.1

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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.48 gmp 6.0.0

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1.55 bridgeutils 1.5

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==

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.62 spew 1.1.1

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1.63 kingpin 2.2.6

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1.64 ghodss-yaml 1.0.0

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1.69 ntp 4.2.8p13

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copyright = {
  date = "1992-2017";
  owner = "The University of Delaware and Network Time Foundation";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version   = `
eval VERSION=\`sed -e 's/.*,\\[//' -e 's/\\].*//' < ../sntp/m4/version.m4\`
[-z "${VERSION}"] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = ''; /* Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
//   sub-name = version;
//   sub-text = 's/#VERSION#/<<version>>/g';
// };
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Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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Steve Clift <clift@ml.csiro.au> OMEGA clock driver
Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>
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Derek Mulcahy <derek@toybox.demon.co.uk> and Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

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Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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  4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood
     <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
  5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
  6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
  7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT
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  9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,
     Trimble PARSE support
 10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete
     broadcast and crypto features
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in sntp

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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.

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.

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1.75 lsof 4.87

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program and simply using it. Linking a program with a library, without
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treats it as such.

Because of this blurred distinction, using the ordinary General
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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.

Thus, it is not the intent of this section to claim rights or contest
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4. You may copy and distribute
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it with the complete corresponding machine-readable source code, which
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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
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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 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

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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.

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<one line to give the library's
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1.76 less 466

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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and valid for as
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the same way through the same place at no
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1.79 byacc 20140422

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1.80 lib-pq 11.2

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xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>34.12.Notice Processing</title><link rel="stylesheet" type="text/css" href="stylesheet.css"
/><link rev="made" href="pgsql-docs@lists.postgresql.org" /><meta name="generator" content="DocBook XSL
Stylesheets V1.79.1" /><link rel="prev" href="libpq-misc.html" title="34.11.Miscellaneous Functions" /><link
rel="next" href="libpq-events.html" title="34.13.Event System" /></head><body><div
xmlns="http://www.w3.org/TR/xhtml1/transitional" class="navheader"><table width="100%"
summary="Navigation header"><tr><th colspan="5" align="center">34.12.Notice Processing</th></tr><tr><td
width="10%" align="left"><a accesskey="p" href="libpq-misc.html" title="34.11.Miscellaneous
Functions">Prev</td><td width="10%"

align="left">Up</td><th width="60%" align="center">Chapter34.libpq - C Library</th><td width="10%" align="right">Home</td><td width="10%" align="right">Next</td></tr></table><hr></hr> <h2 class="title" style="clear: both">34.12.Notice Processing</h2>
Notice and warning messages generated by the server are not returned
by the query execution functions, since they do not imply failure of
the query. Instead they are passed to a notice handling function, and
execution continues normally after the handler returns. The default

notice handling function prints the message on
<code class="filename">stderr</code>, but the application can override this
behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called
the notice receiver and notice processor. The default behavior is for
the notice receiver to format the notice and pass a string to the notice
processor for printing. However, an application that chooses to provide
its own notice receiver will typically ignore the notice processor
layer and just do all the work in the notice receiver.

The function <code class="function">PQsetNoticeReceiver</code>

 sets or
examines the current notice receiver for a connection object.
Similarly, <code class="function">PQsetNoticeProcessor</code>

<a id="id-1.7.3.19.5.6"
class="indexterm"> sets or
examines the current notice processor.

<pre class="synopsis">
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn,
                    PQnoticeReceiver proc,
                    void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn,
                     PQnoticeProcessor proc,
                     void *arg);

</pre>

 Each of these functions returns the previous notice receiver or
 processor function pointer, and sets the new value. If you supply a
 null function pointer, no action is taken, but the current pointer is
 returned.

 When a notice or warning message is received from the server, or
 generated internally by libpq, the notice
 receiver function is called. It is passed the message in the form of
 a <code class="symbol">PGRES_NONFATAL_ERROR</code>
  <code class="structname">PGresult</code>. (This allows the receiver to extract
 individual fields using <code class="function">PQresultErrorField</code>, or obtain a
 complete preformatted message using <code class="function">PQresultErrorMessage</code>
 or <code class="function">PQresultVerboseErrorMessage</code>.) The same
 void pointer passed to <code class="function">PQsetNoticeReceiver</code> is also
 passed. (This pointer can be used to access application-specific state
 if needed.)

 The default notice receiver simply extracts the message (using
 <code class="function">PQresultErrorMessage</code>) and passes it to the notice
 processor.

 The notice processor is responsible for handling a notice or warning
 message given in text form. It is passed the string text of the message
 (including a trailing newline), plus a void pointer that is the same
 one passed to <code class="function">PQsetNoticeProcessor</code>.
 (This pointer
 can be used to access application-specific state if needed.)

 The default notice processor is simply:
<pre class="programlisting">
static void
defaultNoticeProcessor(void *arg, const char *message)
{
  fprintf(stderr, "%s", message);
}
</pre>

 Once you have set a notice receiver or processor, you should expect
 that that function could be called as long as either the
 <code class="structname">PGconn</code> object or <code class="structname">PGresult</code> objects made
 from it exist. At creation of a <code class="structname">PGresult</code>, the
 <code class="structname">PGconn</code>'s current notice handling pointers are copied
 into the <code class="structname">PGresult</code> for possible use by functions like
 <code class="function">PQgetvalue</code>.
<hr /><table width="100%" summary="Navigation footer"><tr><td
width="40%" align="left">Prev</td><td

width="20%" align="center">Up</td><td width="40%" align="right">Next</td></tr><tr><td width="40%" align="left" valign="top">34.11.Miscellaneous Functions</td><td width="20%" align="center">Home</td><td width="40%" align="right" valign="top">34.13.Event System</td></tr></table> </body></html>
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xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>Legal Notice</title><link rel="stylesheet" type="text/css" href="stylesheet.css" /><link
rev="made" href="pgsql-docs@lists.postgresql.org" /><meta name="generator" content="DocBook XSL
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>20.14.BSD Authentication</title><link rel="stylesheet" type="text/css"
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content="DocBook XSL Stylesheets V1.79.1" /><link rel="prev" href="auth-pam.html" title="20.13.PAM
Authentication" /><link rel="next" href="client-authentication-problems.html" title="20.15.Authentication
Problems" /></head><body> <table
width="100%" summary="Navigation header"><tr><th colspan="5" align="center">20.14.BSD
Authentication</th></tr><tr><td width="10%" align="left"><a accesskey="p" href="auth-pam.html"
title="20.13.PAM Authentication">Prev</td><td

width="10%" align="left">Up</td><th width="60%" align="center">Chapter20.Client Authentication</th><td width="10%" align="right">Home</td><td width="10%" align="right">Next</td></tr></table><hr></hr> <h2 class="title" style="clear: both">20.14.BSD Authentication</h2>
  This authentication method operates similarly to
  <code class="literal">password</code> except that it uses BSD Authentication
  to verify the password. BSD Authentication is used only
  to validate user name/password pairs. Therefore the user's role must
  already exist in the database before
 BSD Authentication can be used
  for authentication. The BSD Authentication framework is currently
  only available on OpenBSD.

  BSD Authentication in PostgreSQL uses
  the <code class="literal">auth-postgresql</code> login type and authenticates with
  the <code class="literal">postgresql</code> login class if that's defined
  in <code class="filename">login.conf</code>. By default that login class does not
  exist, and PostgreSQL will use the default login class.
 <h3 class="title">Note</h3>
   To use BSD Authentication, the PostgreSQL user account (that is, the
   operating system user running the server) must first be added to
   the <code class="literal">auth</code> group. The <code class="literal">auth</code> group
   exists by default on OpenBSD systems.
  <hr /><table width="100%" summary="Navigation footer"><tr><td width="40%" align="left">Prev</td><td width="20%" align="center">Up</td><td width="40%" align="right">Next</td></tr><tr><td width="40%" align="left" valign="top">20.13.PAM Authentication</td><td width="20%" align="center">Home</td><td width="40%" align="right" valign="top">20.15.Authentication Problems</td></tr></table> </body></html>
PostgreSQL Database Management System
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1.81 libxext 1.3.2

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`show c' should show the appropriate
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.86 bsd-mailx 12.5-5

1.86.1 Available under license :

bsd-mailx for DEBIAN

The history of this package is quite complicated. The changelog
includes a summary with the different maintainers.

At the beginning of Debian, I think this package was based on a BSD 5.5
mail version from FreeBSD.

There has been a lot on work on the package shipped with Debian
0.93R6, which was based a BSD 8.1 mail version from BSD4.4Lite. The
extensions includes support for dotfile locking, setgid support, POP
support, signal handling hacks.

here is a README originally found:
+ README for Berkely mailx version 8.1 with POP extension
+
+ This is "mailx", a simple program for sending and receiving email.
+
+ This is based on mailx version 8.1 (as distributed with BSD 4.4lite).
+
+ It has been extended to support the post-office protocol (POP). Run
+ "mail -p" and it will retrive your email from a POP server rather than
+ from your local mail queue. See the manual page for more details.
+
+ The POP support was written
by Jonathan I. Kamens for version mailx 5.5
+ (as distributed with BSD 4.3.)
+
+ The POP support was integrated into version 8.1 by Salvatore Valente
+ for no particular reason. (It would have been simpler for me to
+ simply use Jonathan's 5.5 source tree. There are no major differences
+ between the two versions.)
+
+ Have a nice day.
+ -Salvatore Valente. <svalente@athena.mit.edu>
+ 5/12/94
+
+
+ PORTING
+
+ Before attempting to compile this for _any_ system, you should do two
+ things:
+
+ Edit CFLAGS in Makefile.
+ Edit pathnames.h.
+

+ These sources are _extremely_ BSDish. I have successfully built this
+ for Linux, BSD 4.3, NetBSD, Ultrix, Aix, and SunOS. I have never
+ successfully gotten it to build for Solaris or any System 5ish system.
+ If you want to try, here are some issues you will face:
+
+ It uses BSD signal() semantics. Use sigaction().
+ It uses BSD longjmp() semantics. Use siglongjmp().
+
It uses BSD sgtty. Use termios.
+ It uses BSD signal mask functions. Use posix sigmask functions.
+
+ There will probably be other hurdles too. Good luck.

With Debian1.1 a switch was done to a version base on a BSD5.5 mail
program, because of signal handling problems (which I think were due
to bad compilation options). So no more POP support. Some patches
from Ken Whang <Kenneth.C.Whang-1@umn.edu> included, the corresponding
README was:
+ mailx-5.5-kw 5/30/95
+
+
+ WHAT'S IN THIS PATCH
+
+ There are a bunch of little features, common in System V and SunOS
+ versions of mailx, that are missing from the NetBSD-based version
+ distributed with Linux. This patch attempts to fill in some of what's
+ missing.
+
+ Changes from debian mailx-5.5 include:
+
+ 5/4/95:
+
+ -- interpret prompt variable
+ -- interpret ~a and ~A tilde escapes
+ -- updated tildehelp list
+ -- changed mail.rc to ignore nothing (just my personal preference)
+ -- accept
From lines with times of the form hh:mm (formerly took only hh:mm:ss)
+
+ 5/7/95:
+
+ -- Save (S) command saves to mailbox named after author
+ -- take startup commands from file named by environment variable MAILRC
+
+ 5/30/95:
+
+ -- -H switch for header summary only

+
+ Still to be done:
+
+ -- pipe ~p output through PAGER (see type1 in cmd1.c for an example)
+ -- save (s) by default to MBOX (instead of "No file specified.")
+ -- ~q should save to dead.letter, ~x is not known
+ -- update man page
+ -- allnet and showto ("showto" shows recipient instead of sender if sender
+   is current user)
+
+ Possibly difficult:
+
+ -- interpret editheaders variable as in SunOS version
+
+ Bugs:
+
+ -- ~a,~A tilde escapes leave an extra trailing blank on each line
+ -- to conform to original style, I should really be using char *cp
+   instead of new variables sig and prompt to be looking up variables
+ -- -H switch implementation
is kind of gross. grep for "hdronly" in
+   source files; much room for improvement!
+
+
+ HOW TO INSTALL
+
+ Apply Sal Valente's debian patch first, so:
+
+   tar xvfz mailx-5.5.tar.gz
+   cd mailx-5.5
+   zcat ../mailx-5.5.debian.diff.gz | patch -p1
+   zcat ../mailx-5.5-kw.diff.gz | patch -p1
+   make
+
+ Or you may wish to just uncompress the diff file and pick and choose
+ the changes that you like.
+
+
+ AUTHOR
+
+ Ken Whang <Kenneth.C.Whang-1@umn.edu>

This version has no provision for the debian mail policy (permission
on /var/mail+dotfile locking), so Loic Prylli
<lprylli@graville.fdn.fr> finally recreate a package based on the OpenBSD
mail with the minimum number of patches to make it suited for debian
(see changelog). There is no more POP support, nor the added
functionality from Ken Whang, but all these patches are archived, so

mail <lprylli@graville.fdn.fr> if you want them to be incorporated.

Loic Prylli
<lprylli@graville.fdn.fr>, Mon, 23 Dec 1996 00:13:13 +0100

Sat Apr 4 14:05:38 CEST 1998:
After a security patch to fix tmp races, a number of things broke.
Here is what I have tried to fix them:
The rationale is to have all file openings go through safe_open:
File opened in mode "w", "w+", are created with O_EXCL mode,
(should coincide with temporary files or new files)
Files with "a" "a+" et "r+" mode do not require the O_EXCL files. "a+" et "r+" do not creat the file.

Still to do: check creat calls
3.0 (quilt)
diff-ignore
tar-ignore
00-Makefiles.patch
01-Fix-includes.patch
02-Base-fixes-1.patch
03-Base-fixes-2.patch
04-Add-custom-header.patch
05-Mailx-fixes.patch
06-Use-lockf-instead-of-flock.patch
07-Initialize-head-struct.patch
08-Use-liblockfile-library.patch
09-Saved-mbox-message.patch
10-Reply-To-header.patch
11-Showname-option.patch
12-REPLYTO-can-be-set-in-.mailrc-too.patch
13-Mailx-concatenates-messages.patch
14-Truncate-mailbox-instead-of-deleting-it.patch
15-No-space-left-in-tmp.patch
16-Stdin-not-a-tty.patch
17-Intialize-tv_used.patch
18-Wait-for-sendmail.patch
19-Fix-compilation-on-Hurd.patch
20-Don-t-delete-temporary-file.patch
21-Use-wordexpr-instead-of-echo.patch
22-Replace-newlines-with-spaces.patch
24-False-cant-send-email-errors.patch
25-Fix-confusing-error.patch
80-remove_T.patch
81-minus_f.patch
82-expandaddr.patch

83-nosendmail.patch
This package was debianized by Loic Prylli <lprylli@graville.fdn.fr> on
Mon, 23 Dec 1996 00:13:13 +0100.
The package is currently maintained by Robert Luberda <robert@debian.org>

It is now based on OpenBSD in directory src/usr.bin/mail on a lot of major
ftp sites.
See the README.Debian (and changelog.Debian) for the complicated history
of the Debian package.

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9
etc
usr/bin
usr/share/bsd-mailx
usr/share/man/man1

```
#!/usr/bin/make -f

include /usr/share/dpkg/architecture.mk

ifneq ($(DEB_HOST_GNU_TYPE),$(DEB_BUILD_GNU_TYPE))
 export CC = $(DEB_HOST_GNU_TYPE)-gcc
else
 export CC = gcc
endif

%:
 dh "$@" --parallel

override_dh_auto_clean:
 # Don't try to run make clean on unpatched version of Makefile
 ! grep -q DEBIAN Makefile || dh_auto_clean

override_dh_installchangelogs:
 dh_installchangelogs -a debian/EXT/ChangeLog
bsd-mailx (8.1.2-0.20131005cvs-1ubuntu0.14.04.1) trusty-security; urgency=medium

 * SECURITY UPDATE: shell command injection
   - Apply OpenBSD patches from Todd Miller (taken from Debian update):
     + 80-remove_T.patch (remove undocumented/obsolete -T option)
     + 81-minus_f.patch (adjust -f processing)
     + 82-expandaddr.patch (fix CVE-2014-7844)
     + 83-nosendmail.patch (make -- work for option parsing suppression)
   - CVE-2014-7844

-- Marc Deslauriers <marc.deslauriers@ubuntu.com>  Mon, 05 Jan 2015 11:36:44 -0500

bsd-mailx (8.1.2-0.20131005cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * Remove 23-Treat-new-line-only-messages-as-empty-ones.patch, introduced
   in 1:8.1.2-0.20071017cvs-1 so that bsd-mailx will behave like other mailx
   implementations and will not treat messages containing a single new line
   only as an empty ones (LP: #607099, reopens #355545).
 * Extend description of this package to mention the fact
 that bsd-mailx lacks
   many features that may be found in other packages like heirloom-mailx
   or mailutils (closes: #508303).
 * Add 26-Fix-confusing-error.patch to make a message given when -b is used
   without -t less confusing (closes: #327809).
 * Fix 00-Makefile.patch not to override CC and pass CPPFLAGS while compiling.
 * debian/rules:
   + apply patch from Ubuntu to respect DEB_HOST_GNU_TYPE when selecting CC
     for cross-compiling;
```

  + do not try to run make clean on unpatched Makefile.
 * Bump Standards-Version to 3.9.4 (no changes).

-- Robert Luberda <robert@debian.org> Sun, 06 Oct 2013 11:58:42 +0200

bsd-mailx (8.1.2-0.20111106cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * Drop the additional source files from EXT directory, use libbsd-dev
   instead. Move EXT to debian.
 * 00-Makefile: don't override CFLAGS set in environment.
 * Switch to dpkg-source 3.0 (quilt) format.
 * Use debhelper v9 and tiny debian/rules
 file.
 * debian/control:
   + Build-Depends on libbsd-dev;
   + Standards-Version: 3.9.2;
   + use Breaks instead of versioned Conflicts;
   + add Vcs fields;
   + reformat the dependencies fields with `wrap-and-sort' command.
 * Include full text of BSD licence in copyright (lintian).

-- Robert Luberda <robert@debian.org> Sun, 20 Nov 2011 23:37:22 +0100

bsd-mailx (8.1.2-0.20100314cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * Follow upstream and stop installing the outdated documentation
   (closes: #455708); also remove doc-base file.
 * debian/control:
   + depend on default-mta instead of exim4 (closes: #555495);
   + add ${misc:Depends} dependency (lintian);
   + Standards-Version: 3.8.4 (no changes).

-- Robert Luberda <robert@debian.org> Sun, 14 Mar 2010 13:22:18 +0100

bsd-mailx (8.1.2-0.20090911cvs-2) unstable; urgency=medium

 * Fix a bogus "can't send mail: sendmail process failed" errors appearing
   rarely
 on systems under heavy loads (closes: #550116).
   Many thanks to Ivan Zahariev <famzah(at)icdsoft.com> for his investigation
   and patch.

-- Robert Luberda <robert@debian.org> Sat, 10 Oct 2009 11:21:11 +0200

bsd-mailx (8.1.2-0.20090911cvs-1) unstable; urgency=low

 * New upstream release from OpenBSD repository.
 * Fix grammar in description (closes: #515781).
 * Drop mailx transitional package.
 * Bump debhelper compat mode to 7.
 * Standards-Version: 3.8.3

-- Robert Luberda <robert@debian.org> Fri, 11 Sep 2009 18:14:22 +0200

bsd-mailx (8.1.2-0.20081101cvs-2) unstable; urgency=low

 * Upload to unstable.

-- Robert Luberda <robert@debian.org> Sun, 09 Nov 2008 09:00:25 +0100

bsd-mailx (8.1.2-0.20081101cvs-1) experimental; urgency=low

 * New upstream release.
 * Lower priority of mailx package to extra.
 * Standards-Version: 3.8.0 (no changes).
 * Remove duplicated `it' from description (lintian).

-- Robert Luberda <robert@debian.org> Sat, 01 Nov 2008
 12:40:12 +0100

bsd-mailx (8.1.2-0.20071201cvs-3) unstable; urgency=low

 * Lower priority of mailx package to optional (see #477124).
 * copyright: Add a copyright notice (lintian).
 * Build depend on debhelper >= 6 (lintian).
 * Change doc-base section to Network/Communication (lintian).

-- Robert Luberda <robert@debian.org> Sat, 26 Apr 2008 09:52:18 +0200

bsd-mailx (8.1.2-0.20071201cvs-2) unstable; urgency=medium

 * Add conflict with old mailx packages (closes: #459621).
 * Standards-Version: 3.7.3 (no changes).
 * Fix invalid regexp in postinst.

-- Robert Luberda <robert@debian.org> Tue, 08 Jan 2008 23:01:18 +0100

bsd-mailx (8.1.2-0.20071201cvs-1) unstable; urgency=low

 * New upstream version.
 * Rename package to bsd-mailx, and create dummy mailx package for smooth
   upgrades.
 * Manage /usr/bin/mailx with update-alternatives to allow other packages
   like mailutils or nail to be installed together with bsd-mailx.

* Remove outdated preinst script.

--
Robert Luberda <robert@debian.org> Sat, 01 Dec 2007 12:54:13 +0100

mailx (1:8.1.2-0.20071017cvs-2) unstable; urgency=low

* collect.c: Ooops, for debugging I commented out the line responsible
  for removing temporary, and forgot to uncomment it...

-- Robert Luberda <robert@debian.org> Fri, 19 Oct 2007 23:10:11 +0200

mailx (1:8.1.2-0.20071017cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* send.c: treat messages which contain only a new line sign as empty
  messages (closes: #355545).
* Fix ` debian-rules-ignores-make-clean-error' lintian warning.
* Bump debhelper compat mode to v6.

-- Robert Luberda <robert@debian.org> Thu, 18 Oct 2007 23:35:53 +0200

mailx (1:8.1.2-0.20070424cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* Standards-Version: 3.7.2.
* Lower package priority to standard to match the override file.
* main.c: Replace with spaces any embeded newline passed in arguments

  for '-s' and '-a' options (closes: #419840).
* mail.1: Fix a typo (closes: #411420).

-- Robert Luberda <robert@debian.org> Thu, 03 May 2007 12:09:36 +0200

mailx (1:8.1.2-0.20050715cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository:
  + fixed segfault in list.c (closes: #313306).
* Standard-Version: 3.6.2 (no changes).

-- Robert Luberda <robert@debian.org> Fri, 15 Jul 2005 00:28:33 +0200

mailx (1:8.1.2-0.20040524cvs-4) unstable; urgency=low

* Fix documentation of sendmail options in the man page and in the
  mailx's usage output (closes: #285259).

-- Robert Luberda <robert@debian.org> Sat, 18 Dec 2004 13:58:28 +0100

mailx (1:8.1.2-0.20040524cvs-3) unstable; urgency=medium

 * fio.c: Fix segfault on wildcard expansion introduced in previous upload.
   Thanks to Yuri D'Elia for noticing this (see bug#148389).

-- Robert Luberda <robert@debian.org> Sat, 13 Nov 2004 22:23:14 +0100

mailx (1:8.1.2-0.20040524cvs-2) unstable; urgency=medium

  * Bugfix release (closes: #278748):
   + fio.c: Use wordexpr() instead of calling /bin/echo not to allow
     executing external commands while expanding shell variables
     and wildcards.
   + names.c: isfileaddr function return false if '@', '!' or '%' i
     characters occur anywhere (e.g not only before the slash) in the
     recipient name.

-- Robert Luberda <robert@debian.org> Wed, 3 Nov 2004 20:46:39 +0100

mailx (1:8.1.2-0.20040524cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD CVS repository.
 * debian/control: add exim4 alternative to mail-transport-agent
   dependency (closes: #248498).
 * USD.doc/mail*.nr: changed references from /usr/lib/Mail.rc to
   /etc/mail.rc.
 * USD.doc/Makefile, debian/rules: generate and install manual.txt
   (like in the upstream version).
 * Removed lintian override file, it's no longer needed.
 * Add lintian source overrides for `cvsignore-file-in-source'
   and `source-contains-CVS-dir'.

--
 Robert Luberda <robert@debian.org> Mon, 24 May 2004 23:03:47 +0200

mailx (1:8.1.2-0.20031014cvs-2) unstable; urgency=medium

 * edit.c: if the external editor (called by ~e or ~v commands) fails for
   some reason, don't delete the temporary file if it has been modified.
   This partly fixes bug#148037.
 * popen.c: print exit code of failed commands.
 * quit.c: change message saying that mailbox was "removed" to "truncated"
   (closes: #196682); mailx does not remove mailboxes, see the entry
   for 1:8.1.2-0.20020316cvs-2 in this changelog for the reason.

-- Robert Luberda <robert@debian.org> Wed, 31 Mar 2004 23:42:19 +0200

mailx (1:8.1.2-0.20031014cvs-1) unstable; urgency=low

 * New upstream version from OpenBSD.
 * Fix problem with building on Hurd (closes: #213929).
 * mail.1: removed reference to non-existent lockspool man page.
 * Standards-Version: 3.6.1 (no changes).

-- Robert Luberda <robert@debian.org> Tue, 14 Oct 2003 20:48:51 +0200

mailx (1:8.1.2-0.20030521cvs-1)
 unstable; urgency=low

 * New upstream version from OpenBSD.
 * Added EXT/vis.[ch] files, needed for compiling this version.
 * Minor fix in Makefile (closes: #181022).
 * debian/control: Remove ending dot from synopsis line (lintian).
 * Standards-Version: 3.5.10 (no changes).

-- Robert Luberda <robert@debian.org> Thu, 22 May 2003 21:12:21 +0200

mailx (1:8.1.2-0.20020411cvs-5) unstable; urgency=low

 * cmd1.c: Check if return value of screensize() > 0 (closes: #170784).
 * Support DEB_BUILD_OPTIONS=noopt instead of debug.
 * Build with debhelper v4.
 * Standards-Version: 3.5.8.

-- Robert Luberda <robert@debian.org> Sat, 7 Dec 2002 11:42:34 +0100

mailx (1:8.1.2-0.20020411cvs-4) unstable; urgency=low

 * send.c: Always wait for a sendmail process, check its exit code
   and if non-zero, print a warning message to user and save original
   message to ~/dead.letter (closes: #145379).
 * popen.c: Make wait_child() return an exit code of the child.

 * mail.1:
 s/^\.ne li$/.ne/g to fix groff warnings.

-- Robert Luberda <robert@debian.org> Sat, 24 Aug 2002 22:15:23 +0200

mailx (1:8.1.2-0.20020411cvs-3) unstable; urgency=low

 * aux.c: in function alter() do initialize tv_usec part of the
   timeval structure used to set modification time on the mailbox
   file (closes: #152038).
   Thanks to John Girash for help.

-- Robert Luberda <robert@debian.org> Thu, 11 Jul 2002 05:21:34 +0200

mailx (1:8.1.2-0.20020411cvs-2) unstable; urgency=low

 * collect.c: return from grabh() if stdin is not a terminal.
   This fixes the `-I' option (closes: #149005).

-- Robert Luberda <robert@debian.org> Tue, 18 Jun 2002 22:55:27 +0200

mailx (1:8.1.2-0.20020411cvs-1) unstable; urgency=high

 * New upstream CVS snapshot, with only one change, which fixes
   potential security problem:
   + collect.c:
      Don't do tilde escapes unless we are in interactive mode. Now the
      behavior matches the man page...
 * Many thanks to Michal
 Pajak for pointing out the problem.

-- Robert Luberda <robert@debian.org> Thu, 11 Apr 2002 19:07:59 +0200

mailx (1:8.1.2-0.20020316cvs-3) unstable; urgency=low

 * fio.c: fixed previous patch (closes: #140527,#140485).

-- Robert Luberda <robert@debian.org> Tue, 2 Apr 2002 07:14:58 +0200

mailx (1:8.1.2-0.20020316cvs-2) unstable; urgency=low

 * fio.c: Don't delete mailbox file, always truncate it, because liblockfile
   fails to remove the lock file if mailbox doesn't exist (closes: #111537).

-- Robert Luberda <robert@debian.org> Wed, 27 Mar 2002 09:20:08 +0100

mailx (1:8.1.2-0.20020316cvs-1) unstable; urgency=low

 * Applied patches from Arnaud Giersch <arnaud.giersch@free.fr>
   which fix outstanding problems:
   + closes: #37104: Bug in all mailx* (tested: <=mailx_8.1.1-10).
   + closes: #71759: mailx concatenates messages.
   MANY THANKS FOR YOUR HELP, Arnaud!

 * New upstream version from OpenBSD CVS repository:
   + closes: #34752: mail causes segmentation
 fault when pushing Ctrl+C.
 * This version uses strlcpy&strlcat functions, appropriate files were
   included in Debian patch.
 * Added upstream changelog file, generated by hand from CVS logs using

`cvs2cl --no-wrap -S'.
* Makefile: added -p option to install (preserve timestamps of installed files).

-- Robert Luberda <robert@debian.org> Tue, 26 Mar 2002 05:47:53 +0100

mailx (1:8.1.2-0.20010922cvs-3) unstable; urgency=low

* debian/copyright: text of BSD license can be found in common-licences, so do not include it here...

-- Robert Luberda <robert@debian.org> Fri, 4 Jan 2002 08:13:30 +0100

mailx (1:8.1.2-0.20010922cvs-2) unstable; urgency=low

* debian/copyright: removed 3th paragraph from the text of BSD license as suggested by Branden Robinson (closes: #123828).
* Upgraded standards version to 3.5.6 (no changes needed).

-- Robert Luberda <robert@debian.org> Sat, 22 Dec 2001 21:56:31 +0100

mailx (1:8.1.2-0.20010922cvs-1) unstable; urgency=low

  * New version from OpenBSD cvs repository:
  + aux.c: In skin(), only add a space after a comma if there is actually a space in the input buffer. This prevents a rare buffer overflow on very long header lines... (closes: #108677). See #108677 for more info.
  + aux.c: In skin() don't die if realloc() fails since its only purpose is to shrink the buffer, not expand it.

* No other changes was made, so I think this version should go to woody as well.

-- Robert Luberda <robert@debian.org> Sun, 23 Sep 2001 21:42:22 +0200

mailx (1:8.1.2-0.20010705cvs-2) unstable; urgency=low

* Removed exim from exim|mail-transport-agent dependency (closes: #106122).
* Added a lintian override file for virtual-package-without-real-package-dependency warning.
* Fix spelling in description of the package (closes: #106449).

-- Robert Luberda <robert@debian.org> Wed, 8 Aug 2001 23:31:21 +0200

mailx (1:8.1.2-0.20010705cvs-1) unstable; urgency=low

* New version

from OpenBSD cvs.
* Updated copyright and README.Debian files.
* Removed IOSAFE patch - it wasn't used.
* REPLYTO can be set in ~/.mailrc too.

-- Robert Luberda <robert@debian.org> Thu, 12 Jul 2001 18:58:01 +0200

mailx (1:8.1.2-0.20010319cvs-4) unstable; urgency=low

* Applied patch from Tormod Volden <volden@iqe.phys.ethz.ch>, which adds
  "showname" option to mailx (closes: #96867).
* v7.local.c: Removed /var/spool/mail hack added by Paul in 1:8.1.1-10.1.1
* quit.c: Use lockf instead if flock.
* quit.c: Add missing newline in `Saved ...' message.
* Added doc-base support.
* Added versioned dependency on base-files, as suggested in upgrading-
  checklist for Debian Policy 3.5.4.
* Standards-Version: 3.5.5

-- Robert Luberda <robert@debian.org> Tue, 12 Jun 2001 23:43:10 +0200

mailx (1:8.1.2-0.20010319cvs-3) unstable; urgency=low

* Applied some patches from FreeBSD:
  + Add Relpy-To header if REPLYTO environment variable is set.
  + Add In-Reply-To
header for replies (closes: #23115).
* When saving messages to mbox, print its real filename (closes: #68920).
  Thanks to Tollef Fog Heen for patch.
* /etc/mail.rc: Add Delivered-To to list of ignored headers.

-- Robert Luberda <robert@debian.org> Wed, 4 Apr 2001 00:20:57 +0200

mailx (1:8.1.2-0.20010319cvs-2) unstable; urgency=low

* Don't ask about (B)Cc: header twice (closes: #90822).

-- Robert Luberda <robert@debian.org> Fri, 23 Mar 2001 23:47:43 +0100

mailx (1:8.1.2-0.20010319cvs-1) unstable; urgency=medium

* New maintainer (closes: #90146).
* New upstream version from OpenBSD CVS repository.
* Security fix: don't install mailx binary setgid mail.
  Now the liblockfile library is used for mailbox locking.
* cmd3.c: Initialize head variable with NULLs. This should fix
  problem with garbage text when replying (closes: #84166).
* Add conflicts with older suidmanager.

* Helpfiles moved to /usr/share/mailx.
* Added support for DEB_BUILD_OPTIONS=debug,nostrip.
* Updated Standards-Version: 3.5.2
* Switch to debhelper v3.
* Updated Build-Depends field.
* Closing bugs fixed in NMUs (closes: #23901, #64238, #68725, #68745).

-- Robert Luberda <robert@debian.org> Thu, 22 Mar 2001 08:05:56 +0100

mailx (1:8.1.1-10.3) unstable; urgency=low

* debian/rules: added install dependancy to binary-arch (Closes: Bug#83361).

-- Edward Betts <edward@debian.org> Sun, 28 Jan 2001 14:40:05 -0700

mailx (1:8.1.1-10.2) unstable; urgency=low

* debian/control: Standards-Version updated.
* debian/control: Build-Depends added.
* debian/control: Depends line fixed (Closes: Bug#41909).
* debian/rules: rewritten, still uses debhelper.
* Makefile: man pages moved to /usr/share/man (Closes: Bug#80758).
* applied patch from Martin Schulze (Closes: Bug#23356, Bug#13756).
* applied patch from Ulf Jaenicke-Roessler <ujr@physik.phy.tu-dresden.de>
  (Closes: Bug#26757, Bug#40424).
* misc/mail.help, USD.doc/mail[1568].nr: changed
references from
  /usr/spool/mail to /var/mail (Closes: Bug#41910).
* send.c: Comment out bcc code (Closes: Bug#75232).
* pathnames.h: Change default shell from /bin/csh to /bin/sh.
* pathnames.h: Change default pager from /bin/more to
  /usr/bin/pager (Closes: Bug#41228).
* pathnames.h: Change default editor from /bin/ex to /usr/bin/editor
  (Closes: Bug#66385).
* debian/rules: stop using dh_suidregister

-- Edward Betts <edward@debian.org> Sun, 14 Jan 2001 12:36:16 -0700

mailx (1:8.1.1-10.1.3) frozen unstable; urgency=high

* Fix the security fix: only accept a couple environment variables
  instead of blindly using them all

-- Wichert Akkerman <wakkerma@debian.org> Tue, 8 Aug 2000 11:42:02 -0700

mailx (1:8.1.1-10.1.2) frozen unstable; urgency=high

* Another security problem: refuse to get the interactive variable

from the environment by explicitly setting it in the hashtable.

-- Wichert Akkerman <wakkerma@debian.org> Mon, 7 Aug 2000 12:36:10
-0700

mailx (1:8.1.1-10.1.1) frozen unstable; urgency=high

* NMU to fix RC bug. Now accepts both /var/mail and /var/spool/mail as
allowed places for setgid file manipulation. fixes:#64238

-- Paul Slootman <paul@debian.org> Thu, 8 Jun 2000 19:51:14 +0200

mailx (1:8.1.1-10.1) stable frozen unstable; urgency=high

* Security fix for a GID=mail shell.

-- Daniel Jacobowitz <dan@debian.org> Sun, 4 Jun 2000 22:45:19 -0700

mailx (1:8.1.1-10) frozen unstable; urgency=high

* correct major security flaw, patch from Alvaro Martinez Echevarria
<alvaro@lander.es>, bug#23880, bug#23901

* other potential buffer overflow, patch from Juan-Mariano de Goyeneche
<jmseyas@selva.dit.upm.es>, bug #22937

-- Loic Prylli <Loic.Prylli@graville.fdn.fr> Sun, 28 Jun 1998 20:15:18 -0400

mailx (1:8.1.1-9) frozen unstable; urgency=high

* recompile without the signal handling workarounds (lo
that eliminate critical bugs where message parts can be lost
(#20798) and (#20558)

-- Loic Prylli <lprylli@graville.fdn.fr> Thu, 9 Apr 1998 02:11:26 +0200

mailx (1:8.1.1-8) frozen unstable; urgency=high

* previous patch broke most file accesses, corrected safe_open (#20634)
* try to check every access to Fopen, change "a" into "w" for new files,
to suit behaviour of safe_open.

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 4 Apr 1998 22:01:19 +0200

mailx (1:8.1.1-7) frozen; urgency=medium

* security fix for tmp races patch from Martin Schulze (#20059)

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Mar 1998 22:52:35 +0100

mailx (1:8.1.1-6) unstable; urgency=low

 * convert to debhelper
 * changelog now compressed (bug#15431)
 * removed .orig and .rej from source (bug#18409)

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 14 Feb 1998 14:34:22 +0100

mailx (1:8.1.1-5) unstable; urgency=low

 * apply David Brown patch so mailx choose the right window size
   (#12197)
 * correct Depends: in control file.

-- Loic Prylli <lprylli@graville.fdn.fr>
  Sat, 15 Nov 1997 00:30:38 +0100

mailx (1:8.1.1-4) unstable; urgency=high

 * mailx was sending empty message, ignoring user input
   add clearerr when EAGAIN occur in "IOSAFE" code (#14263)

-- Loic Prylli <lprylli@graville.fdn.fr> Tue, 11 Nov 1997 20:22:35 +0100

mailx (1:8.1.1-3.1) unstable; urgency=low

 * Non-maintainer release.
 * Libc6 compile. (#11705)
 * Install missing symlink to manpage. (#7274)

-- Martin Mitchell <martin@debian.org> Wed, 29 Oct 1997 04:34:39 +1100

mailx (1:8.1.1-3) unstable; urgency=low

 * add dpkg --assert-working-epoch in preinst bug#6850
 * add writing of pid in mailbox locking file
 * fix:mailx was not removing temporary lock files

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 1 Feb 1997 11:44:04 +0100

mailx (1:8.1.1-2) unstable; urgency=low

 * correct bug #2733 (occur when no space left) dans quit.c
 * detection of From_ lines with tring to match the date bug#2010
 * corrected garble output bug #2284

-- Loic
 Prylli <lprylli@graville.fdn.fr> Sat, 28 Dec 1996 15:02:22 +0100

mailx (1:8.1.1-1) unstable; urgency=medium

 * recreate completely starting from OpenBSD mail version (we loose a lot
   of extension but we have a working program now)
 * OpenBSD base version is the last one in december 96
 * rechange the numbering of version, so epoch 1+8.1 is from 4.4BSD, the
   last upstream digit is to change each time we update to a new openbsd
   version.
 * fix the problem of longjmp inside signals inside stdio calls
 * reincorporate a patch to be dot file locking+setgid safe
 * some fix in signal handling

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Dec 1996 01:57:44 +0100

Mon Apr 29 17:21:42 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

 * releasing 8.5.5-1

 * added symlink /usr/bin/Mail -> /usr/bin/mailx

Thu Apr 25 23:55:36 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

 * set version number to 8.5.5 because it has to superseed 8.1

 * switched back to mailx-5.5-kw (see mailx-5.5-kw.diff.README)

 * no POP support

mailx 8.1 Debian 5 - 10/19/95 Sven Rudolph <sr1@inf.tu-dresden.de>
* uses now BSD signal emulation (/usr/include/bsd/signal.h)
* added virtual package names in Depends: and Provides fields (Bug#1460)
* added Section: field
* created symlink for mailx manpage (Bug#1114)

mailx 8.1 Debian 4 - 5/20/95 Carl Streeter <streeter@cae.wisc.edu>
* Added diffs from Delman Lee <delman@mipg.upenn.edu>:

  Hi! I got mailx-8.1-3 from the Linux Debian distribution, and have
  added a "hold-pop" option to hold messages on the POP server after
  retrieving them. (Also fixed a minor bug with mailx thinking that there
  is mail even if the POP mailbox is empty. Code around stat() below.)

mailx 8.1 Debian 3 - 4/18/95 Carl Streeter <streeter@cae.wisc.edu>

* Fixed control file to depend on smail|sendmail. Updated to latest
 guidelines
bsd-mailx source: source-contains-cvs-control-dir
Source: bsd-mailx
Section: mail
Priority: standard
Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
XSBC-Original-Maintainer: Robert Luberda <robert@debian.org>
Standards-Version: 3.9.4
Build-Depends: debhelper (>= 9),
               groff,
               libbsd-dev (>= 0.3),
               liblockfile-dev (>= 1.05)
Vcs-Git: git://anonscm.debian.org/users/robert/bsd-mailx.git
Vcs-Browser: http://anonscm.debian.org/gitweb/?p=users/robert/bsd-mailx.git

Package: bsd-mailx
Architecture: any
Depends: base-files (>= 2.2.0),
         default-mta | mail-transport-agent,
         ${misc:Depends},
         ${shlibs:Depends}
Provides: mail-reader, mailx
Breaks: mailutils (<< 1:1.1+dfsg1-4), mailx (<< 1:20071201)
Replaces: mailx (<< 1:20071201)
Description: simple mail user agent
bsd-mailx is the traditional simple command-line-mode mail user agent.
Even if you don't use it, it may be required by other programs.
.
The /usr/bin/mail command provided by this package is a very
 simple one,
and does not include many features that can be found in more advanced
mail user agents.
.
For example bsd-mailx DOES NOT support:
 - MIME   (i.e. no attachments, no UTF-8 or other charsets support);
 - SMTP protocol (/usr/sbin/sendmail interface only is used);
 - POP3/IMAP   (bsd-mailx reads local mailboxes only);
 - maildir format (traditional mbox only format is supported).
.
If the above features are needed, please consider installing another package
providing similar /usr/bin/mail interface:
 - heirloom-mailx package,
 - or mailutils package.

1.87 rrdtool 1.7.0

1.87.1 Available under license :

Id

I would like to thank to following people for helping to
bring RRDtool into existence.

Alan Lichty <alan_lichty with eli.net>
Alan Milligan <alan.milligan@last-bastion.net> Python bindings
Alex van den Bogaerdt <alex with ergens.op.het.net> (rrd_resize.c and more)
Amos Shapira <amos with gezernet.co.il>
Andreas Kroomaa <andre with ml.ee>
Andrew Turner <turner with mint.net> (LAST consolidator)
Aaron Gallagher <_ with habnab.it> MEDIAN operator
Benny Baumann <benbe with geshi.org) rrd_dump with callback support
Bernard Fischer <bfischer with syslog.ch> 64bit stuff, --alt-autoscale-max
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David Grimes <dgrimes with navisite.com> SQRT/SORT/REV/SHIFT/TREND
David L. Barker <dave with ncomtech.com> xport function bug fixes
Evan Miller <emiller with imvu.com> Multiplicative HW Enhancements
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Jeremy Fischer <jeremy with pobox.com> (Makefile changes & RPM builds)
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Joel Becker <jlbec with raleigh.ibm.com> AIX
Joey Miller <joeym with inficad.com>php3 and php4 bindings
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Kai Siering <kai.siering with mediaways.net>
Kevin Brintnall <kbrint with rufus.net> bugfixes in and additions to rrdcached, including journaling support

Larry Leszczynski <larryl with furph.com>
Mark Plaksin <happy@usg.edu> rrd_graph_v
Matt Chambers <matthew.chambers with vanderbilt.edu> --full-size-mode for rrdgraph
Melchior Rabe <rrdtool at mrab.de> -- legend position patch
McCreary mccreary with xoanon.colorado.edu
Mike Mitchell <mcm with unx.sas.com>
Mike Slifcak <slif with bellsouth.net> many rrdtool-1.1.x fixes
Oleg Cherevko <olwi with icyb.kiev.ua>
Otmar Lendl <O.Lendl with Austria.EU.net> (lots of bugfixes)
Pablo Sanchez <pablo at blueoakdb.com> (CDEF vs VDEF)
Patrick Cherry <patrick with bytemark.co.uk>
Paul Joslin <Paul.Joslin with sdrc.com>
Peter Speck <speck with vitality.dk> eps/svg/pdf file format code in rrdtool-1.x
Peter Stamfest <peter with stamfest.at> initial multi-thread support
Peter Breitenlohner <peb with
mppmu.mpg.de> many patches for rrdtool 1.2.x
Philippe.Simonet <Philippe.Simonet with swisscom.com> (NT porting)
Poul-Henning Kamp <phk with freebsd.org> CDEF enhancements
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Ulrich Schilling <schilling with netz.uni-essen.de> AIX
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Version 2.1, February 1999

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1.89 curl 7.62.0

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the other libraries use and what possible dilemmas linking and mixing them all
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1.90 curl 7.58.0

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1.91 xz 5.1.3

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1.92 libpng 1.6.13

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1.95 gorilla 1.7.3

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1.98 grpc-go 1.24.0

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1.100 inf 0.9.1

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1.101 pflag 1.0.5

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1.102 mergo 0.3.8

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.103 libcap 2.22

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abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org
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version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

```
Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current
 year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{
```

```
 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

1.110 log-rotate 3.8.7

1.110.1 Available under license :

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package cmd

func initGpl2() {
 Licenses["gpl2"] = License{
  Name:            "GNU General Public License 2.0",
  PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
  Header: `
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package cmd

```
func initBsdClause3() {
 Licenses["bsd"] = License{
  Name:           "NewBSD",
  PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
  Header: `All rights reserved.

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}
}
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package cmd

import (
 "strings"
 "time"

 "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the
 header to be used with each file on the file's creating, and the text
// of the license
type License struct {
 Name            string   // The type of license in use
 PossibleMatches []string // Similar names to guess
 Text            string   // License text data
 Header          string   // License header for source files
}

func init() {
 // Allows a user to not use a license.
 Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

 initApache2()
 initMit()
 initBsdClause3()
 initBsdClause2()
 initGpl2()
 initGpl3()
 initLgpl()
 initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
 // If explicitly flagged, use that.
```

```
 if userLicense != "" {
  return findLicense(userLicense)
 }

 // If user wants to have custom license, use that.
 if viper.IsSet("license.header") || viper.IsSet("license.text")
 {
  return License{Header: viper.GetString("license.header"),
   Text: viper.GetString("license.text")}
 }

 // If user wants to have built-in license, use that.
 if viper.IsSet("license") {
  return findLicense(viper.GetString("license"))
 }

 // If user didn't set any license, use Apache 2.0 by default.
 return Licenses["apache"]
}

func copyrightLine() string {
 author := viper.GetString("author")

 year := viper.GetString("year") // For tests.
 if year == "" {
  year = time.Now().Format("2006")
 }

 return "Copyright  " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
 found := matchLicense(name)
 if found == "" {
  er("unknown license: " + name)
 }
 return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank
 string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
```

```
if name == "" {
 return ""
}

for key, lic := range Licenses {
 for _, match := range lic.PossibleMatches {
  if strings.EqualFold(name, match) {
   return key
  }
 }
}

return ""
}
```

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package cmd
```

```
func initGpl3() {
 Licenses["gpl3"] = License{
  Name:          "GNU General Public License 3.0",
  PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
  Header: `
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<http://www.gnu.org/philosophy/why-not-lgpl.html>.
`,
 }
}
package cmd

func initLgpl() {
 Licenses["lgpl"] = License{
  Name: "GNU Lesser General Public License",
  PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
  Header: `
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Library.`,
 }
}
package cmd

func initAgpl() {
 Licenses["agpl"] = License{
  Name: "GNU Affero General Public License",
  PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
  Header: `
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 Licenses["apache"] = License{
  Name:           "Apache 2.0",
  PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
  Header: `
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 Licenses["mit"] = License{
  Name:           "MIT License",
  PossibleMatches: []string{"mit"},
  Header: `
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 Licenses["freebsd"] = License{
  Name: "Simplified BSD License",
  PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
   "2 clause bsd", "simplified bsd license"},
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`,
 }
}

1.116 tcpdump 4.9.3

1.116.1 Available under license :

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1.117 cracklib 2.9.5

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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)

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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
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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Random Hacker.

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

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in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> > libraries under
> > GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> > -mike

> Re: [Cracklib-devel] cracklib license
> From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan
wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
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> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
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> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
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> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
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> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.118 pgzip 1.2.1

1.118.1 Available under license :

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1.119 runc 1.0.0-rc9

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1.120 go-difflib 1.0.0

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1.121 dhcp 4.4.1

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

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

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

 Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

 <xsl:variable name="isc.copyright">
```

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

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 - Local variables:
 - mode: sgml
 - End:
-->
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1.125 libpcap 1.9.1

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1.126 libevent 2.1.11

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1.127 luajit 2.0.5

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1.128 ulikunitz-xz 0.5.6

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1.129 xz 5.1.3alpha

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==========

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1.130 golang 0.4.0

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1.133 cryptsetup 1.7.4

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1.137 postgre-sql 11.2

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

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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Section 6 states terms for distribution of such executables.

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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
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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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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.)

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c) Accompany the work with a written offer, valid for at least

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1.139 lxc 2.0.7

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package cmd

func initGpl2() {
 Licenses["gpl2"] = License{
  Name:            "GNU General Public License 2.0",
  PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
  Header: `
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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
```

```
func RegisterLicense(text string) {
 licenses = append(licenses, text)
 return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
 return licenses
}
```

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func initBsdClause2() {
 Licenses["freebsd"] = License{
  Name: "Simplified BSD License",
  PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
   "2 clause bsd", "simplified bsd license"},
  Header: `All rights reserved.

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tomb - support for clean goroutine termination in Go.

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package legal

import (
 "testing"
)

func TestRegisterLicense(t *testing.T) {
 initial := len(licenses)
 RegisterLicense("dummy")
 if initial+1 != len(licenses) {
  t.Fatal("didn't add a license")
 }
}
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func initMit() {
 Licenses["mit"] = License{
  Name:            "MIT License",
  PossibleMatches: []string{"mit"},
  Header: `
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func initBsdClause3() {
 Licenses["bsd"] = License{
  Name:            "NewBSD",
  PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
  Header: `All rights reserved.

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}
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 Licenses["apache"] = License{
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  PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
  Header: `
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  Header: `
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func initGpl3() {
 Licenses["gpl3"] = License{
  Name:          "GNU General Public License 3.0",
  PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
  Header: `
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}
}
package cmd

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package cmd

import (
 "strings"
 "time"

 "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the
 header to be used with each file on the file's creating, and the text
// of the license
type License struct {
 Name            string   // The type of license in use
 PossibleMatches []string // Similar names to guess
 Text            string   // License text data
 Header          string   // License header for source files
}

func init() {
 // Allows a user to not use a license.
 Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

 initApache2()
 initMit()
 initBsdClause3()
 initBsdClause2()
 initGpl2()
 initGpl3()
 initLgpl()
 initAgpl()
}

// getLicense returns license specified by user in flag or in config.
```

```
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
 // If explicitly flagged, use that.
 if userLicense != "" {
  return findLicense(userLicense)
 }

 // If user wants to have custom license, use that.
 if viper.IsSet("license.header") || viper.IsSet("license.text")
 {
  return License{Header: viper.GetString("license.header"),
   Text: viper.GetString("license.text")}
 }

 // If user wants to have built-in license, use that.
 if viper.IsSet("license") {
  return findLicense(viper.GetString("license"))
 }

 // If user didn't set any license, use Apache 2.0 by default.
 return Licenses["apache"]
}

func copyrightLine() string {
 author := viper.GetString("author")

 year := viper.GetString("year") // For tests.
 if year == "" {
  year = time.Now().Format("2006")
 }

 return "Copyright  " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
 found := matchLicense(name)
 if found == "" {
  er("unknown license: " + name)
 }
 return Licenses[found]
}

// matchLicense compares the given a license name
```

```
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank
 string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
 if name == "" {
  return ""
 }

 for key, lic := range Licenses {
  for _, match := range lic.PossibleMatches {
   if strings.EqualFold(name, match) {
    return key
   }
  }
 }

 return ""
}
```

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1.140 cg-manager 0.37

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

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
```

```
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

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

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

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer
transmission, provided
you inform other peers where the object code and Corresponding
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A separable portion of the object code, whose source code is excluded
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1.153 gorilla-csrf 1.6.1

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1.154 google-uuid 0.1

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1.155 kmod 18+gitAUTOINC+ae58de0fcb

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1.159 shim 14

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1.161 postgre-sql 12.4

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1.162 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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1.163 openssl 1.1.1g

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

```
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

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1.167 openssh 8.4p1

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1.168 acl 2.2.2

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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.

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

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HAPROXY's license - 2006/06/15

Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to
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Willy
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1.170 ipset 6.38

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1.174 erlang-otp 22.3

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Email local part: ph10

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Written by: Philip Hazel
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 */
```

[zlib]

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

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

[dialyzer]

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[edoc, syntax_tools]

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1.175 go-kit 0.0.0 - 7ddd1d2470d1acb3a1977d27b99c691f

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1.177 gosnmp 1.22

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1.178 log15 v0.0.0-20180818164646-67afb5ed74ec

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1.179 perks 0.0.0-20141205001514-d9a9656a3a4b

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1.180 streadway-amqp 0.0.0 - edfb9018d2714e4ec54dbaba37dbfef2

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1.181 vmihailenco-msgpack 4.0.4

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1.182 x-crypto 0.0.0 - 06a226fb4e3765ef3f48aa2852b401bc

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1.183 xlsx go1.1.2

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XSLX
====
xlsx is intended to be a library to simplify reading the XML format
used by recent version of Microsoft Excel in Go programs.

I've recently updated the code (23rd September 2013) to support a
little more style information and made some of the code work
concurrently, which will hopefully improve performance a little.

Updates are sporadic as I no longer rely on this code myself, but I'm
always happy to look at patches and pull requests and I will try to
respond to specific issues you might be having.

There are no current plans to support writing documents.

Usage

Presented here is a minimal example usage that will dump all cell data in a given XLSX file. A more complete example of this kind of functionality is contained int the XLSX2CSV program <https://github.com/tealeg/xlsx2csv>.:

```go

import (
  "fmt"
  "github.com/tealeg/xlsx"
)

func main() {
  excelFileName := "/home/tealeg/foo.xlsx"
   xlFile, error := xlsx.OpenFile(excelFileName)
  if error != nil {
     ...
  }
  for _, sheet := range xlFile.Sheets {
```

```
    for _, row := range sheet.Rows {
        for _, cell := range row.Cells {
            fmt.Printf("%s\n", cell.String())
        }
    }
  }
}

```

Some additional information is available from the cell (for example, style information). For more details see the godoc output for this package.

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Eat a peach - Geoff

Found in path(s):
* /opt/cola/permits/1104111118_1604510879.25/0/tealeg-xlsx-go1-1-2-0-g97f9156-tar-gz/tealeg-xlsx-786ec83/README.md

1.184 blang-semver 4.0.0

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1.185 units 0.0.0-20190924025748-f65c72e2690d

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1.186 x-net 0.0.0 - 0ba52f642ac2f9371a88bfdde41f4b4e

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1.187 x-sys 0.0.0 - da207088b7d1961c44ec61e9dc15a737

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1.188 x-text 0.0.0 - 81608d7e9c6863c922f599e4ff1329a6

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1.189 errors 0.8.1

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1.190 opentracing-go 1.1.0

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1.191 go-connections 0.4.0

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1.192 gdbm 1.11

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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procfs provides functions to retrieve system, kernel and process
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Protocol Buffers for Go with Gadgets

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

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1.202 msgp 1.1.2

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1.203 go-uuid 0.1

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1.204 gawk 4.1.1

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 Because
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1.205 libassuan 2.1.2

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